<110> INCYTE CORPORATION; ELLIOTT, Vicki S.;
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HAFALIAL, April J.A.; BECHA, Shanya D.;
CHAWLA, Narinder K.; BAUGHN, Mariah R.;
LEE, Soo Yeun; TRAN, Uyen K.;
YUE, Henry; NGUYEN, Danniel B.;
THORNTON, Michael B.; GURURAJAN, Rajagopal;
GANDHI, Ameena R.; LU, Yan;
YAO, Monique G.; LI, Joana X.;
LUO, Wen; LEE, Ernestine A.;
FORSYTHE, Ian J.; ISON, Craig H.;
WILSON, Amy D.; JIN, Pei

<120> KINASES AND PHOSPHATASES

<130> PF-1506 PCT

<140> To Be Assigned
<141> Herewith

<150> US 60/467,491
<151> 2003-04-30

<150> US 60/469,441
<151> 2003-05-09

<150> US 60/476,408
<151> 2003-06-05

<150> US 60/494,656
<151> 2003-08-12

<150> US 60/524,415
<151> 2003-11-20

<150> US 60/528,750
<151> 2003-12-10

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<210> 1
<211> 83
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<213> Homo sapiens

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Asn	Ile	Asp	Val	Cys	Glu	Asn	Cys	His	Tyr	Pro	Ile	Val	Pro	Leu	
				20					25						30
Asp	Gly	Lys	Gly	Thr	Leu	Leu	Ile	Arg	Asn	Gly	Ser	Glu	Thr	Thr	
				35					40						45
Trp	Leu	Ser	Leu	Cys	Thr	Ala	Met	Ser	Pro	Leu	Thr	Thr	Glu	Ile	
				50					55						60
Trp	Ala	Leu	Arg	Arg	Gly	Asn	Ser	Ser	Ala	Ser	Trp	Ser	Arg	Ala	
				65					70						75
Ala	Ser	Gly	Gly	Arg	Arg	Ser	Pro								
				80											

<210> 2
<211> 292
<212> PRT
<213> Homo sapiens

<220>
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<400> 2
Met Ala Asp Gln Ala Pro Phe Asp Thr Asp Val Asn Thr Leu Thr
1 5 10 15
Arg Phe Val Met Glu Glu Gly Arg Lys Ala Arg Gly Thr Gly Glu
20 25 30
Leu Thr Gln Leu Leu Asn Ser Leu Cys Thr Ala Val Lys Ala Ile
35 40 45
Ser Ser Ala Val Arg Lys Ala Gly Ile Ala His Leu Tyr Gly Ile
50 55 60
Ala Gly Ser Thr Asn Val Thr Gly Asp Gln Val Lys Lys Leu Asp
65 70 75
Val Leu Ser Asn Asp Leu Val Met Asn Met Leu Lys Ser Ser Phe
80 85 90
Ala Thr Cys Val Leu Val Ser Glu Glu Asp Lys His Ala Ile Ile
95 100 105
Val Glu Pro Glu Lys Arg Gly Lys Tyr Val Val Cys Phe Asp Pro
110 115 120
Leu Asp Gly Ser Ser Asn Ile Asp Cys Leu Val Ser Val Gly Thr
125 130 135
Ile Phe Gly Ile Tyr Arg Lys Lys Ser Thr Asp Glu Pro Ser Glu
140 145 150
Lys Asp Ala Leu Gln Pro Gly Arg Asn Leu Val Ala Ala Gly Tyr
155 160 165
Ala Leu Tyr Gly Ser Ala Thr Met Leu Val Leu Ala Met Asp Cys
170 175 180
Gly Val Asn Cys Phe Met Leu Asp Pro Asp Asn Ser Ala Pro Tyr
185 190 195
Gly Ala Arg Tyr Val Gly Ser Met Val Ala Asp Val His Arg Thr
200 205 210
Leu Val Tyr Gly Gly Ile Phe Leu Tyr Pro Ala Asn Lys Lys Ser
215 220 225
Pro Asn Gly Lys Leu Arg Leu Leu Tyr Glu Cys Asn Pro Met Ala
230 235 240
Tyr Val Met Glu Lys Ala Gly Gly Met Ala Thr Thr Gly Lys Glu
245 250 255
Ala Val Leu Asp Val Ile Pro Thr Asp Ile His Gln Arg Ala Pro
260 265 270
Val Ile Leu Gly Ser Pro Asp Asp Val Leu Glu Phe Leu Lys Val
275 280 285
Tyr Glu Lys His Ser Ala Gln
290

<210> 3
<211> 434
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7521279CD1

<400> 3
Met Ala Ser Pro Arg Glu Leu Thr Gln Asn Pro Leu Lys Lys Ile
1 5 10 15
Trp Met Pro Tyr Ser Asn Gly Arg Pro Ala Leu His Ala Cys Gln

```
                  20                  25                  30
Arg Gly Val Cys Met Thr Asn Cys Pro Thr Leu Ile Val Met Val
                  35                  40                  45
Gly Leu Pro Ala Arg Gly Lys Thr Tyr Ile Ser Lys Lys Leu Thr
                  50                  55                  60
Arg Tyr Leu Asn Trp Ile Gly Val Pro Thr Arg Glu Phe Asn Val
                  65                  70                  75
Gly Gln Tyr Arg Arg Asp Val Val Lys Thr Tyr Lys Ser Phe Glu
                  80                  85                  90
Phe Phe Leu Pro Asp Asn Glu Glu Gly Leu Lys Ile Arg Lys Gln
                  95                 100                 105
Cys Ala Leu Ala Ala Leu Arg Asp Val Arg Arg Phe Leu Ser Glu
                 110                 115                 120
Glu Gly Gly His Val Ala Val Phe Asp Ala Thr Asn Thr Thr Arg
                 125                 130                 135
Glu Arg Arg Ala Thr Ile Phe Asn Phe Gly Glu Gln Asn Gly Tyr
                 140                 145                 150
Lys Thr Phe Phe Val Glu Ser Ile Cys Val Asp Pro Glu Val Ile
                 155                 160                 165
Ala Ala Asn Ile Val Gln Val Lys Leu Gly Ser Pro Asp Tyr Val
                 170                 175                 180
Asn Arg Asp Ser Asp Glu Ala Thr Glu Asp Phe Met Arg Arg Ile
                 185                 190                 195
Glu Cys Tyr Glu Asn Ser Tyr Glu Ser Leu Asp Glu Asp Leu Asp
                 200                 205                 210
Arg Asp Leu Ser Tyr Ile Lys Ile Met Asp Val Gly Gln Ser Tyr
                 215                 220                 225
Val Val Asn Arg Val Ala Asp His Ile Gln Ser Arg Ile Val Tyr
                 230                 235                 240
Tyr Leu Met Asn Ile His Val Thr Pro Arg Ser Ile Tyr Leu Cys
                 245                 250                 255
Arg His Gly Glu Ser Glu Leu Asn Leu Lys Gly Arg Ile Gly Gly
                 260                 265                 270
Asp Pro Gly Leu Ser Pro Arg Gly Arg Glu Phe Ala Lys Ser Leu
                 275                 280                 285
Ala Gln Phe Ile Ser Asp Gln Asn Ile Lys Asp Leu Lys Val Trp
                 290                 295                 300
Thr Ser Gln Met Lys Arg Thr Ile Gln Thr Ala Glu Ala Leu Gly
                 305                 310                 315
Val Pro Tyr Glu Gln Trp Lys Val Leu Asn Glu Ile Asp Ala Ser
                 320                 325                 330
Tyr Glu Asp Leu Val Gln Arg Leu Glu Pro Val Ile Met Glu Leu
                 335                 340                 345
Glu Arg Gln Glu Asn Val Leu Val Ile Cys His Gln Ala Val Met
                 350                 355                 360
Arg Cys Leu Leu Ala Tyr Phe Leu Asp Lys Ala Ala Glu Gln Leu
                 365                 370                 375
Pro Tyr Leu Lys Cys Pro Leu His Thr Val Leu Lys Leu Thr Pro
                 380                 385                 390
Val Ala Tyr Gly Cys Lys Val Glu Ser Ile Phe Leu Asn Val Ala
                 395                 400                 405
Ala Val Asn Thr His Arg Asp Arg Pro Gln Asn Val Asp Ile Ser
                 410                 415                 420
Arg Pro Pro Glu Glu Ala Leu Val Thr Val Pro Ala His Gln
                 425                 430
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<210> 4
<211> 240
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523965CD1

<400> 4
Met Ala Ala Leu Tyr Arg Pro Gly Leu Arg Leu Asn Trp His Gly
1 5 10 15
Leu Ser Pro Leu Gly Trp Pro Ser Cys Arg Ser Ile Gln Thr Leu
20 25 30
Arg Val Leu Ser Gly Asp Leu Gly Gln Leu Pro Thr Gly Ile Arg
35 40 45
Asp Phe Val Glu His Ser Ala Arg Leu Cys Gln Pro Glu Gly Ile
50 55 60
His Ile Cys Asp Gly Thr Glu Ala Glu Asn Thr Ala Thr Leu Thr
65 70 75
Leu Leu Glu Gln Gln Gly Leu Ile Arg Lys Leu Pro Lys Tyr Asn
80 85 90
Asn Cys Trp Leu Ala Arg Thr Asp Pro Lys Asp Val Ala Arg Val
95 100 105
Glu Ser Lys Thr Val Ile Val Thr Pro Ser Gln Arg Asp Thr Val
110 115 120
Pro Leu Pro Pro Gly Gly Ala Arg Gly Gln Leu Gly Asn Trp Met
125 130 135
Ser Pro Ala Asp Phe Gln Arg Ala Val Asp Glu Arg Phe Pro Gly
140 145 150
Cys Met Gln Gly Arg Thr Met Tyr Val Leu Pro Phe Ser Met Gly
155 160 165
Pro Val Gly Ser Pro Leu Ser Arg Ile Gly Val Gln Leu Thr Asp
170 175 180
Ser Ala Tyr Val Val Ala Ser Met Arg Ile Met Thr Arg Leu Gly
185 190 195
Thr Pro Val Leu Gln Ala Leu Gly Asp Gly Asp Phe Val Lys Cys
200 205 210
Leu His Ser Val Gly Gln Pro Leu Thr Gly Gln Asp Pro Gly His
215 220 225
His Gln Pro Cys Arg Glu Glu Ala Leu Cys Gly Ser Arg Leu Pro
230 235 240

<210> 5
<211> 199
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524016CD1

<400> 5
Met Glu Glu Lys Thr Ser Arg Ile Lys Ala Ser Ile Pro Gln Phe
1 5 10 15
Thr Asn Ser Pro Thr Met Val Ile Met Val Gly Leu Pro Ala Arg
20 25 30
Gly Lys Thr Tyr Ile Ser Thr Lys Leu Thr Arg Tyr Leu Asn Trp
35 40 45
Ile Gly Thr Pro Thr Lys Val Phe Asn Leu Gly Gln Tyr Arg Arg
50 55 60
Glu Ala Val Ser Tyr Lys Asn Tyr Glu Phe Phe Leu Pro Asp Asn
65 70 75
Met Glu Ala Leu Gln Ile Arg Lys Gln Cys Ala Leu Ala Ala Leu
80 85 90
Lys Asp Val His Asn Tyr Leu Ser His Glu Glu Gly His Val Ala
95 100 105
Val Phe Asp Ala Thr Asn Thr Thr Arg Glu Arg Arg Ser Leu Ile
110 115 120
Leu Gln Phe Ala Lys Glu His Gly Tyr Lys Val Phe Phe Ile Glu
125 130 135
Ser Ile Cys Asn Asp Pro Gly Ile Ile Ala Glu Asn Ile Arg Gln

```
                  140                 145                 150
Val Lys Leu Gly Ser Pro Asp Tyr Ile Asp Cys Asp Arg Glu Lys
                  155                 160                 165
Val Leu Glu Asp Phe Leu Lys Arg Ile Glu Cys Tyr Glu Val Asn
                  170                 175                 180
Tyr Gln Pro Leu Asp Glu Glu Leu Asp Arg Ser Ser Thr Trp Ala
                  185                 190                 195
His Ala Thr Trp
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<210> 6
<211> 406
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524680CD1

<400> 6

```
Met Glu Glu Lys Thr Ser Arg Ile Lys Val Phe Asn Leu Gly Gln
  1                 5                  10                  15
Tyr Arg Arg Glu Ala Val Ser Tyr Lys Asn Tyr Glu Phe Phe Leu
                  20                  25                  30
Pro Asp Asn Met Glu Ala Leu Gln Ile Arg Lys Gln Cys Ala Leu
                  35                  40                  45
Ala Ala Leu Lys Asp Val His Asn Tyr Leu Ser His Glu Glu Gly
                  50                  55                  60
His Val Ala Val Phe Asp Ala Thr Asn Thr Thr Arg Glu Arg Arg
                  65                  70                  75
Ser Leu Ile Leu Gln Phe Ala Lys Glu His Gly Tyr Lys Val Phe
                  80                  85                  90
Phe Ile Glu Ser Ile Cys Asn Asp Pro Gly Ile Ile Ala Glu Asn
                  95                 100                 105
Ile Arg Gln Val Lys Leu Gly Ser Pro Asp Tyr Ile Asp Cys Asp
                 110                 115                 120
Arg Glu Lys Val Leu Glu Asp Phe Leu Lys Arg Ile Glu Cys Tyr
                 125                 130                 135
Glu Val Asn Tyr Gln Pro Leu Asp Glu Glu Leu Asp Ser His Leu
                 140                 145                 150
Ser Tyr Ile Lys Ile Phe Asp Val Gly Thr Arg Tyr Met Val Asn
                 155                 160                 165
Arg Val Gln Asp His Ile Gln Ser Arg Thr Val Tyr Tyr Leu Met
                 170                 175                 180
Asn Ile His Val Thr Pro Arg Ser Ile Tyr Leu Cys Arg His Gly
                 185                 190                 195
Glu Ser Glu Leu Asn Ile Arg Gly Arg Ile Gly Gly Asp Ser Gly
                 200                 205                 210
Leu Ser Val Arg Gly Lys Gln Tyr Ala Tyr Ala Leu Ala Asn Phe
                 215                 220                 225
Ile Gln Ser Gln Gly Ile Ser Ser Leu Lys Val Trp Thr Ser His
                 230                 235                 240
Met Lys Arg Thr Ile Gln Thr Ala Glu Ala Leu Gly Val Pro Tyr
                 245                 250                 255
Glu Gln Trp Lys Ala Leu Asn Glu Ile Asp Ala Gly Val Cys Glu
                 260                 265                 270
Glu Met Thr Tyr Glu Glu Ile Gln Glu His Tyr Pro Glu Glu Phe
                 275                 280                 285
Ala Leu Arg Asp Gln Asp Lys Tyr Arg Tyr Arg Tyr Pro Lys Gly
                 290                 295                 300
Glu Ser Tyr Glu Asp Leu Val Gln Arg Leu Glu Pro Val Ile Met
                 305                 310                 315
Glu Leu Glu Arg Gln Glu Asn Val Leu Val Ile Cys His Gln Ala
                 320                 325                 330
```

```
Val Met Arg Cys Leu Leu Ala Tyr Phe Leu Asp Lys Ser Ser Asp
                335                 340                 345
Glu Leu Pro Tyr Leu Lys Cys Pro Leu His Thr Val Leu Lys Leu
                350                 355                 360
Thr Pro Val Ala Tyr Gly Cys Lys Val Glu Ser Ile Tyr Leu Asn
                365                 370                 375
Val Glu Thr Val Asn Thr His Arg Glu Lys Pro Glu Asn Val Asp
                380                 385                 390
Ile Thr Arg Glu Pro Glu Glu Ala Leu Asp Thr Val Pro Ala His
                395                 400                 405
Tyr
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<210> 7
<211> 426
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524757CD1

<400> 7

```
Met Glu Glu Lys Thr Ser Arg Ile Lys Ala Ser Ile Pro Gln Phe
  1               5                  10                  15
Thr Asn Ser Pro Thr Met Val Ile Met Val Gly Leu Pro Ala Arg
                20                  25                  30
Gly Lys Thr Tyr Ile Ser Thr Lys Leu Thr Arg Tyr Leu Asn Trp
                35                  40                  45
Ile Gly Thr Pro Thr Lys Asp Asn Met Glu Ala Leu Gln Ile Arg
                50                  55                  60
Lys Gln Cys Ala Leu Ala Ala Leu Lys Asp Val His Asn Tyr Leu
                65                  70                  75
Ser His Glu Glu Gly His Val Ala Val Phe Asp Ala Thr Asn Thr
                80                  85                  90
Thr Arg Glu Arg Arg Ser Leu Ile Leu Gln Phe Ala Lys Glu His
                95                 100                 105
Gly Tyr Lys Val Phe Phe Ile Glu Ser Ile Cys Asn Asp Pro Gly
               110                 115                 120
Ile Ile Ala Glu Asn Ile Arg Gln Val Lys Leu Gly Ser Pro Asp
               125                 130                 135
Tyr Ile Asp Cys Asp Arg Glu Lys Val Leu Glu Asp Phe Leu Lys
               140                 145                 150
Arg Ile Glu Cys Tyr Glu Val Asn Tyr Gln Pro Leu Asp Glu Glu
               155                 160                 165
Leu Asp Ser His Leu Ser Tyr Ile Lys Ile Phe Asp Val Gly Thr
               170                 175                 180
Arg Tyr Met Val Asn Arg Val Gln Asp His Ile Gln Ser Arg Thr
               185                 190                 195
Val Tyr Tyr Leu Met Asn Ile His Val Thr Pro Arg Ser Ile Tyr
               200                 205                 210
Leu Cys Arg His Gly Glu Ser Glu Leu Asn Ile Arg Gly Arg Ile
               215                 220                 225
Gly Gly Asp Ser Gly Leu Ser Val Arg Gly Lys Gln Tyr Ala Tyr
               230                 235                 240
Ala Leu Ala Asn Phe Ile Gln Ser Gln Gly Ile Ser Ser Leu Lys
               245                 250                 255
Val Trp Thr Ser His Met Lys Arg Thr Ile Gln Thr Ala Glu Ala
               260                 265                 270
Leu Gly Val Pro Tyr Glu Gln Trp Lys Ala Leu Asn Glu Ile Asp
               275                 280                 285
Ala Gly Val Cys Glu Glu Met Thr Tyr Glu Glu Ile Arg Glu His
               290                 295                 300
Tyr Pro Glu Glu Phe Ala Leu Arg Asp Gln Asp Lys Tyr Arg Tyr
```

```
                305                 310                 315
Arg Tyr Pro Lys Gly Glu Ser Tyr Glu Asp Leu Val Gln Arg Leu
                320                 325                 330
Glu Pro Val Ile Met Glu Leu Glu Arg Gln Glu Asn Val Leu Val
                335                 340                 345
Ile Cys His Gln Ala Val Met Arg Cys Leu Leu Ala Tyr Phe Leu
                350                 355                 360
Asp Lys Ser Ser Asp Glu Leu Pro Tyr Leu Lys Cys Pro Leu His
                365                 370                 375
Thr Val Leu Lys Leu Thr Pro Val Ala Tyr Gly Cys Lys Val Glu
                380                 385                 390
Ser Ile Tyr Leu Asn Val Glu Ala Val Asn Thr His Arg Glu Lys
                395                 400                 405
Pro Glu Asn Val Asp Ile Thr Arg Glu Pro Glu Glu Ala Leu Asp
                410                 415                 420
Thr Val Pro Ala His Tyr
                425

<210> 8
<211> 355
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7516229CD1

<400> 8
Met Ala Thr Pro Gly Asn Leu Gly Ser Ser Val Leu Ala Ser Lys
  1                 5                  10                  15
Thr Lys Thr Lys Lys Lys His Phe Val Ala Gln Lys Val Lys Leu
                 20                  25                  30
Phe Arg Ala Ser Asp Pro Leu Leu Ser Val Leu Met Trp Gly Val
                 35                  40                  45
Asn His Ser Ile Asn Glu Leu Ser His Val Gln Ile Pro Val Met
                 50                  55                  60
Leu Met Pro Asp Asp Phe Lys Ala Tyr Ser Lys Ile Lys Val Asp
                 65                  70                  75
Asn His Leu Phe Asn Lys Glu Asn Met Pro Ser His Phe Lys Phe
                 80                  85                  90
Lys Glu Tyr Cys Pro Met Val Phe Arg Asn Leu Arg Glu Arg Phe
                 95                 100                 105
Gly Ile Asp Asp Gln Asp Phe Gln Tyr Ile Val Glu Cys His Gly
                110                 115                 120
Ile Thr Leu Leu Pro Gln Phe Leu Gly Met Tyr Arg Leu Asn Val
                125                 130                 135
Asp Gly Val Glu Ile Tyr Val Ile Val Thr Arg Asn Val Phe Ser
                140                 145                 150
His Arg Leu Ser Val Tyr Arg Lys Tyr Asp Leu Lys Gly Ser Thr
                155                 160                 165
Val Ala Arg Glu Ala Ser Asp Lys Glu Lys Ala Lys Glu Leu Pro
                170                 175                 180
Thr Leu Lys Asp Asn Asp Phe Ile Asn Glu Gly Gln Lys Ile Tyr
                185                 190                 195
Ile Asp Asp Asn Asn Lys Lys Val Phe Leu Glu Lys Leu Lys Lys
                200                 205                 210
Asp Val Glu Phe Leu Ala Gln Leu Lys Leu Met Asp Tyr Ser Leu
                215                 220                 225
Leu Val Gly Ile His Asp Val Glu Arg Ala Glu Gln Glu Glu Val
                230                 235                 240
Glu Cys Glu Glu Asn Asp Gly Glu Glu Glu Gly Glu Ser Asp Gly
                245                 250                 255
Thr His Pro Val Gly Thr Pro Pro Asp Ser Pro Gly Asn Thr Leu
                260                 265                 270
```

```
Asn Ser Ser Pro Pro Leu Ala Pro Gly Glu Phe Asp Pro Asn Ile
                275                 280                 285
Asp Val Tyr Gly Ile Lys Cys His Glu Asn Ser Pro Arg Lys Glu
                290                 295                 300
Val Tyr Phe Met Ala Ile Ile Asp Ile Leu Thr His Tyr Asp Ala
                305                 310                 315
Lys Lys Lys Ala Ala His Ala Ala Lys Thr Val Lys His Gly Ala
                320                 325                 330
Gly Ala Glu Ile Ser Thr Val Asn Pro Glu Gln Tyr Ser Lys Arg
                335                 340                 345
Phe Leu Asp Phe Ile Gly His Ile Leu Thr
                350                 355
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<210> 9
<211> 543
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7516525CD1

<400> 9

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Met Glu Gly Gly Pro Ala Val Cys Cys Gln Asp Pro Arg Ala Glu
  1                 5                  10                  15
Leu Val Glu Arg Val Ala Ala Ile Asp Val Thr His Leu Glu Glu
                 20                  25                  30
Ala Asp Gly Gly Pro Glu Pro Thr Arg Asn Gly Val Asp Pro Pro
                 35                  40                  45
Pro Arg Ala Arg Ala Ala Ser Val Ile Pro Gly Ser Thr Ser Arg
                 50                  55                  60
Leu Leu Pro Ala Arg Pro Ser Leu Ser Ala Arg Lys Leu Ser Leu
                 65                  70                  75
Gln Glu Arg Pro Ala Gly Ser Tyr Leu Glu Ala Gln Ala Gly Pro
                 80                  85                  90
Tyr Ala Thr Gly Pro Ala Ser His Ile Ser Pro Arg Ala Trp Arg
                 95                 100                 105
Arg Pro Thr Ile Glu Ser His His Val Ala Ile Ser Asp Ala Glu
                110                 115                 120
Asp Cys Val Gln Leu Asn Gln Tyr Lys Leu Gln Ser Glu Ile Gly
                125                 130                 135
Lys Gly Ala Tyr Gly Val Val Arg Pro Ala Tyr Asn Glu Ser Glu
                140                 145                 150
Asp Arg His Tyr Ala Met Lys Val Leu Ser Lys Lys Lys Leu Leu
                155                 160                 165
Lys Gln Tyr Gly Phe Pro Arg Arg Pro Pro Pro Arg Gly Ser Gln
                170                 175                 180
Ala Ala Gln Gly Gly Pro Ala Lys Gln Leu Leu Pro Leu Glu Arg
                185                 190                 195
Val Tyr Gln Glu Ile Ala Ile Leu Lys Lys Leu Asp His Val Asn
                200                 205                 210
Val Val Lys Leu Ile Glu Val Leu Asp Asp Pro Ala Glu Asp Asn
                215                 220                 225
Leu Tyr Leu Ala Leu Gln Asn Gln Ala Gln Asn Ile Gln Leu Asp
                230                 235                 240
Ser Thr Asn Ile Ala Lys Pro His Ser Leu Leu Pro Ser Glu Gln
                245                 250                 255
Gln Asp Ser Gly Ser Thr Trp Ala Ala Arg Ser Val Phe Asp Leu
                260                 265                 270
Leu Arg Lys Gly Pro Val Met Glu Val Pro Cys Asp Lys Pro Phe
                275                 280                 285
Ser Glu Glu Gln Ala Arg Leu Tyr Leu Arg Asp Val Ile Leu Gly
                290                 295                 300
Leu Glu Tyr Leu His Cys Gln Lys Ile Val His Arg Asp Ile Lys
```

```
                305                 310                 315
Pro Ser Asn Leu Leu Leu Gly Asp Asp Gly His Val Lys Ile Ala
                320                 325                 330
Asp Phe Gly Val Ser Asn Gln Phe Glu Gly Asn Asp Ala Gln Leu
                335                 340                 345
Ser Ser Thr Ala Gly Thr Pro Ala Phe Met Ala Pro Glu Ala Ile
                350                 355                 360
Ser Asp Ser Gly Gln Ser Phe Ser Gly Lys Ala Leu Asp Val Trp
                365                 370                 375
Ala Thr Gly Val Thr Leu Tyr Cys Phe Val Tyr Gly Lys Cys Pro
                380                 385                 390
Phe Ile Asp Asp Phe Ile Leu Ala Leu His Arg Lys Ile Lys Asn
                395                 400                 405
Glu Pro Val Val Phe Pro Glu Gly Pro Glu Ile Ser Glu Glu Leu
                410                 415                 420
Lys Asp Leu Ile Leu Lys Met Leu Asp Lys Asn Pro Glu Thr Arg
                425                 430                 435
Ile Gly Val Pro Asp Ile Lys Leu His Pro Trp Val Thr Lys Asn
                440                 445                 450
Gly Glu Glu Pro Ile Pro Ser Glu Glu Glu His Cys Ser Val Val
                455                 460                 465
Glu Val Thr Glu Glu Glu Val Lys Asn Ser Val Arg Leu Ile Pro
                470                 475                 480
Ser Trp Thr Thr Val Ile Leu Val Lys Ser Met Leu Arg Lys Arg
                485                 490                 495
Ser Phe Gly Asn Pro Phe Glu Pro Gln Ala Arg Arg Glu Glu Arg
                500                 505                 510
Ser Met Ser Ala Pro Gly Asn Leu Leu Val Lys Glu Gly Phe Gly
                515                 520                 525
Glu Gly Gly Lys Ser Pro Glu Leu Pro Gly Val Gln Glu Asp Glu
                530                 535                 540
Ala Ala Ser
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<210> 10
<211> 445
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7516533CD1

<400> 10

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Met Arg Arg Arg Arg Arg Arg Asp Gly Phe Tyr Pro Ala Pro Asp
  1                 5                  10                  15
Phe Arg Asp Arg Glu Ala Glu Asp Met Ala Gly Val Phe Asp Ile
                20                  25                  30
Asp Leu Asp Gln Pro Glu Asp Ala Gly Ser Glu Asp Glu Leu Glu
                35                  40                  45
Glu Gly Ala Met Ile Val Arg Asn Ala Lys Asp Thr Ala His Thr
                50                  55                  60
Lys Ala Glu Arg Asn Ile Leu Glu Glu Val Lys His Pro Phe Ile
                65                  70                  75
Val Asp Leu Ile Tyr Ala Phe Gln Thr Gly Gly Lys Leu Tyr Leu
                80                  85                  90
Ile Leu Glu Tyr Leu Ser Gly Gly Glu Leu Phe Met Gln Leu Glu
                95                 100                 105
Arg Glu Gly Ile Phe Met Glu Asp Thr Ala Cys Phe Tyr Leu Ala
               110                 115                 120
Glu Ile Ser Met Ala Leu Gly His Leu His Gln Lys Gly Ile Ile
               125                 130                 135
Tyr Arg Asp Leu Lys Pro Glu Asn Ile Met Leu Asn His Gln Gly
               140                 145                 150
```

```
His Val Lys Leu Thr Asp Phe Gly Leu Cys Lys Glu Ser Ile His
                155                 160                 165
Asp Gly Thr Val Thr His Thr Phe Cys Gly Thr Ile Glu Tyr Met
                170                 175                 180
Ala Pro Glu Ile Leu Met Arg Ser Gly His Asn Arg Ala Val Asp
                185                 190                 195
Trp Trp Ser Leu Gly Ala Leu Met Tyr Asp Met Leu Thr Gly Ala
                200                 205                 210
Pro Pro Phe Thr Gly Glu Asn Arg Lys Lys Thr Ile Asp Lys Ile
                215                 220                 225
Leu Lys Cys Lys Leu Asn Leu Pro Pro Tyr Leu Thr Gln Glu Ala
                230                 235                 240
Arg Asp Leu Leu Lys Lys Leu Leu Lys Arg Asn Ala Ala Ser Arg
                245                 250                 255
Leu Gly Ala Gly Pro Gly Asp Ala Gly Glu Val Gln Ala His Pro
                260                 265                 270
Phe Phe Arg His Ile Asn Trp Glu Glu Leu Leu Ala Arg Lys Val
                275                 280                 285
Glu Pro Pro Phe Lys Pro Leu Leu Gln Ser Glu Glu Asp Val Ser
                290                 295                 300
Gln Phe Asp Ser Lys Phe Thr Arg Gln Thr Pro Val Asp Ser Pro
                305                 310                 315
Asp Asp Ser Thr Leu Ser Glu Ser Ala Asn Gln Val Phe Leu Gly
                320                 325                 330
Phe Thr Tyr Val Ala Pro Ser Val Leu Glu Ser Val Lys Glu Lys
                335                 340                 345
Phe Ser Phe Glu Pro Lys Ile Arg Ser Pro Arg Arg Phe Ile Gly
                350                 355                 360
Ser Pro Arg Thr Pro Val Ser Pro Val Lys Phe Ser Pro Gly Asp
                365                 370                 375
Phe Trp Gly Arg Gly Ala Ser Ala Ser Ala Ala Asn Pro Gln Thr
                380                 385                 390
Pro Val Glu Tyr Pro Met Glu Thr Ser Gly Ile Glu Gln Met Asp
                395                 400                 405
Val Thr Met Ser Gly Glu Ala Ser Ala Pro Leu Pro Ile Arg Gln
                410                 415                 420
Pro Asn Ser Gly Pro Tyr Lys Lys Gln Ala Phe Pro Met Ile Ser
                425                 430                 435
Lys Arg Pro Glu His Leu Arg Met Asn Leu
                440                 445
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<210> 11
<211> 1219
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7516613CD1

<400> 11

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Met Ala Asn Asp Ser Pro Ala Lys Ser Leu Val Asp Ile Asp Leu
  1               5                  10                  15
Ser Ser Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Val
                20                  25                  30
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val
                35                  40                  45
Lys Thr Gly Gln Leu Ala Ala Ile Lys Val Met Asp Val Thr Glu
                50                  55                  60
Asp Glu Glu Glu Glu Ile Lys Leu Glu Ile Asn Met Leu Lys Lys
                65                  70                  75
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile
                80                  85                  90
Lys Lys Ser Pro Pro Gly His Asp Asp Gln Leu Trp Leu Val Met
```

95 100 105
Glu Phe Cys Gly Ala Gly Ser Ile Thr Asp Leu Val Lys Asn Thr
110 115 120
Lys Gly Asn Thr Leu Lys Glu Asp Trp Ile Ala Tyr Ile Ser Arg
125 130 135
Glu Ile Leu Arg Gly Leu Ala His Leu His Ile His His Val Ile
140 145 150
His Arg Asp Ile Lys Gly Gln Asn Val Leu Leu Thr Glu Asn Ala
155 160 165
Glu Val Lys Leu Val Asp Phe Gly Val Ser Ala Gln Leu Asp Gly
170 175 180
Thr Val Gly Arg Arg Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met
185 190 195
Ala Pro Glu Val Ile Ala Cys Asp Glu Asn Pro Asp Ala Thr Tyr
200 205 210
Asp Tyr Arg Ser Asp Leu Trp Ser Cys Gly Ile Thr Ala Ile Glu
215 220 225
Met Gly Glu Gly Ala Pro Pro Leu Cys Asp Met His Pro Met Arg
230 235 240
Ala Leu Phe Leu Ile Pro Arg Asn Pro Pro Pro Arg Leu Lys Ser
245 250 255
Lys Lys Trp Ser Lys Lys Phe Phe Ser Phe Ile Glu Gly Cys Leu
260 265 270
Val Lys Asn Tyr Met Gln Arg Pro Ser Thr Glu Gln Leu Leu Lys
275 280 285
His Pro Phe Ile Arg Asp Gln Pro Asn Glu Arg Gln Val Arg Ile
290 295 300
Gln Leu Lys Asp His Ile Asp Arg Thr Arg Lys Lys Arg Gly Glu
305 310 315
Lys Asp Glu Thr Glu Tyr Glu Tyr Ser Gly Ser Glu Glu Glu Glu
320 325 330
Glu Glu Val Pro Glu Gln Glu Gly Glu Pro Ser Ser Ile Val Asn
335 340 345
Val Pro Gly Glu Ser Thr Leu Arg Arg Asp Phe Leu Arg Leu Gln
350 355 360
Gln Glu Asn Lys Glu Arg Ser Glu Ala Leu Arg Arg Gln Gln Leu
365 370 375
Leu Gln Glu Gln Gln Leu Arg Glu Gln Glu Glu Tyr Lys Arg Gln
380 385 390
Leu Leu Ala Glu Arg Gln Lys Arg Ile Glu Gln Gln Lys Glu Gln
395 400 405
Arg Arg Arg Leu Glu Glu Gln Gln Arg Arg Glu Arg Glu Ala Arg
410 415 420
Arg Gln Gln Glu Arg Glu Gln Arg Arg Arg Glu Gln Glu Glu Lys
425 430 435
Arg Arg Leu Glu Glu Leu Glu Arg Arg Arg Lys Glu Glu Glu Glu
440 445 450
Arg Arg Gln Ala Glu Glu Glu Lys Arg Arg Val Glu Arg Glu Gln
455 460 465
Glu Tyr Ile Arg Arg Gln Leu Glu Glu Glu Gln Arg His Leu Glu
470 475 480
Val Leu Gln Gln Gln Leu Leu Gln Glu Gln Ala Met Leu Leu His
485 490 495
Asp His Arg Arg Pro His Pro Gln His Ser Gln Gln Pro Pro Pro
500 505 510
Pro Gln Gln Glu Arg Ser Lys Pro Ser Phe His Ala Pro Glu Pro
515 520 525
Lys Ala His Tyr Glu Pro Ala Asp Arg Ala Arg Glu Val Pro Val
530 535 540
Arg Thr Thr Ser Arg Ser Pro Val Leu Ser Arg Arg Asp Ser Pro
545 550 555
Leu Gln Gly Ser Gly Gln Gln Asn Ser Gln Ala Gly Gln Arg Asn
560 565 570
Ser Thr Ser Ser Ile Glu Pro Arg Leu Leu Trp Glu Arg Val Glu

575 580 585
Lys Leu Met Pro Arg Pro Gly Ser Gly Ser Ser Ser Gly Ser Ser
590 595 600
Asn Ser Gly Ser Gln Pro Gly Ser His Pro Gly Ser Gln Ser Gly
605 610 615
Ser Gly Glu Arg Phe Arg Val Arg Ser Ser Ser Lys Ser Glu Gly
620 625 630
Ser Pro Ser Gln Arg Leu Glu Asn Ala Val Lys Lys Pro Glu Asp
635 640 645
Lys Lys Glu Val Phe Arg Pro Leu Lys Pro Ala Asp Leu Thr Ala
650 655 660
Leu Ala Lys Glu Leu Arg Ala Val Glu Asp Val Arg Pro Pro His
665 670 675
Lys Val Thr Asp Tyr Ser Ser Ser Ser Glu Glu Pro Gly Thr Thr
680 685 690
Asp Glu Glu Asp Asp Asp Val Glu Gln Glu Gly Ala Asp Glu Ser
695 700 705
Thr Ser Gly Pro Glu Asp Thr Arg Ala Ala Ser Ser Leu Asn Leu
710 715 720
Ser Asn Gly Glu Thr Glu Ser Val Lys Thr Met Ile Val His Asp
725 730 735
Asp Val Glu Ser Glu Pro Ala Met Thr Pro Ser Lys Glu Gly Thr
740 745 750
Leu Ile Val Arg Gln Ser Thr Val Asp Gln Lys Arg Ala Ser His
755 760 765
His Glu Ser Asn Gly Phe Ala Gly Arg Ile His Leu Leu Pro Asp
770 775 780
Leu Leu Gln Gln Ser His Ser Ser Ser Thr Ser Ser Thr Ser Ser
785 790 795
Ser Pro Ser Ser Ser Gln Pro Thr Pro Thr Met Ser Pro Gln Thr
800 805 810
Pro Gln Asp Lys Leu Thr Ala Asn Glu Thr Gln Ser Ala Ser Ser
815 820 825
Thr Leu Gln Lys His Lys Ser Ser Ser Ser Phe Thr Pro Phe Ile
830 835 840
Asp Pro Arg Leu Leu Gln Ile Ser Pro Ser Ser Gly Thr Thr Val
845 850 855
Thr Ser Val Val Gly Phe Ser Cys Asp Gly Met Arg Pro Glu Ala
860 865 870
Ile Arg Gln Asp Pro Thr Arg Lys Gly Ser Val Val Asn Val Asn
875 880 885
Pro Thr Asn Thr Arg Pro Gln Ser Asp Thr Pro Glu Ile Arg Lys
890 895 900
Tyr Lys Lys Arg Phe Asn Ser Glu Ile Leu Cys Ala Ala Leu Trp
905 910 915
Gly Val Asn Leu Leu Val Gly Thr Glu Ser Gly Leu Met Leu Leu
920 925 930
Asp Arg Ser Gly Gln Gly Lys Val Tyr Pro Leu Ile Asn Arg Arg
935 940 945
Arg Phe Gln Gln Met Asp Val Leu Glu Gly Leu Asn Val Leu Val
950 955 960
Thr Ile Ser Gly Lys Lys Asp Lys Leu Arg Val Tyr Tyr Leu Ser
965 970 975
Trp Leu Arg Asn Lys Ile Leu His Asn Asp Pro Glu Val Glu Lys
980 985 990
Lys Gln Gly Trp Thr Thr Val Gly Asp Leu Glu Gly Cys Val His
995 1000 1005
Tyr Lys Val Val Lys Tyr Glu Arg Ile Lys Phe Leu Val Ile Ala
1010 1015 1020
Leu Lys Ser Ser Val Glu Val Tyr Ala Trp Ala Pro Lys Pro Tyr
1025 1030 1035
His Lys Phe Met Ala Phe Lys Ser Phe Gly Glu Leu Val His Lys
1040 1045 1050
Pro Leu Leu Val Asp Leu Thr Val Glu Glu Gly Gln Arg Leu Lys

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                1055                1060                1065
Val Ile Tyr Gly Ser Cys Ala Gly Phe His Ala Val Asp Val Asp
                1070                1075                1080
Ser Gly Ser Val Tyr Asp Ile Tyr Leu Pro Thr His Ile Gln Cys
                1085                1090                1095
Ser Ile Lys Pro His Ala Ile Ile Ile Leu Pro Asn Thr Asp Gly
                1100                1105                1110
Met Glu Leu Leu Val Cys Tyr Glu Asp Glu Gly Val Tyr Val Asn
                1115                1120                1125
Thr Tyr Gly Arg Ile Thr Lys Asp Val Val Leu Gln Trp Gly Glu
                1130                1135                1140
Met Pro Thr Ser Val Ala Tyr Ile Arg Ser Asn Gln Thr Met Gly
                1145                1150                1155
Trp Gly Glu Lys Ala Ile Glu Ile Arg Ser Val Glu Thr Gly His
                1160                1165                1170
Leu Asp Gly Val Phe Met His Lys Arg Ala Gln Arg Leu Lys Phe
                1175                1180                1185
Leu Cys Glu Arg Asn Asp Lys Val Phe Phe Ala Ser Val Arg Ser
                1190                1195                1200
Gly Gly Ser Ser Gln Val Tyr Phe Met Thr Leu Gly Arg Thr Ser
                1205                1210                1215
Leu Leu Ser Trp
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<210> 12
<211> 1168
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7517068CD1

<400> 12

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Met Ala Ser Asp Ser Pro Ala Arg Ser Leu Asp Glu Ile Asp Leu
  1                 5                  10                  15
Ser Ala Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Leu
                 20                  25                  30
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val
                 35                  40                  45
Lys Thr Gly Gln Leu Ala Ala Ile Lys Val Met Asp Val Thr Gly
                 50                  55                  60
Asp Glu Glu Glu Glu Ile Lys Gln Glu Ile Asn Met Leu Lys Lys
                 65                  70                  75
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile
                 80                  85                  90
Lys Lys Asn Pro Pro Gly Met Asp Asp Gln Leu Trp Leu Val Met
                 95                 100                 105
Glu Phe Cys Gly Ala Gly Ser Val Thr Asp Leu Ile Lys Asn Thr
                110                 115                 120
Lys Gly Asn Thr Leu Lys Glu Glu Trp Ile Ala Tyr Ile Cys Arg
                125                 130                 135
Glu Ile Leu Arg Gly Leu Ser His Leu His Gln His Lys Val Ile
                140                 145                 150
His Arg Asp Ile Lys Gly Gln Asn Val Leu Leu Thr Glu Asn Ala
                155                 160                 165
Glu Val Lys Leu Val Asp Phe Gly Val Ser Ala Gln Leu Asp Arg
                170                 175                 180
Thr Val Gly Arg Arg Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met
                185                 190                 195
Ala Pro Glu Val Ile Ala Cys Asp Glu Asn Pro Asp Ala Thr Tyr
                200                 205                 210
Asp Phe Lys Ser Asp Leu Trp Ser Leu Gly Ile Thr Ala Ile Glu
                215                 220                 225
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Met Ala Glu Gly Ala Pro Pro Leu Cys Asp Met His Pro Met Arg
                230                 235                 240
Ala Leu Phe Leu Ile Pro Arg Asn Pro Ala Pro Arg Leu Lys Ser
                245                 250                 255
Lys Lys Trp Ser Lys Lys Phe Gln Ser Phe Ile Glu Ser Cys Leu
                260                 265                 270
Val Lys Asn His Ser Gln Arg Pro Ala Thr Glu Gln Leu Met Lys
                275                 280                 285
His Pro Phe Ile Arg Asp Gln Pro Asn Glu Arg Gln Val Arg Ile
                290                 295                 300
Gln Leu Lys Asp His Ile Asp Arg Thr Lys Lys Lys Arg Gly Glu
                305                 310                 315
Lys Asp Glu Thr Glu Tyr Glu Tyr Ser Gly Ser Glu Glu Glu Glu
                320                 325                 330
Glu Glu Asn Asp Ser Gly Glu Pro Ser Ser Ile Leu Asn Leu Pro
                335                 340                 345
Gly Glu Ser Thr Leu Arg Arg Asp Phe Leu Arg Leu Gln Leu Ala
                350                 355                 360
Asn Lys Glu Arg Ser Glu Ala Leu Arg Arg Gln Gln Leu Glu Gln
                365                 370                 375
Gln Gln Arg Glu Asn Glu Glu His Lys Arg Gln Leu Leu Ala Glu
                380                 385                 390
Arg Gln Lys Arg Ile Glu Glu Gln Lys Glu Gln Arg Arg Arg Leu
                395                 400                 405
Glu Glu Ile Pro His Leu Val Ala Val Lys Ser Gln Gly Pro Ala
                410                 415                 420
Leu Thr Ala Ser Gln Ser Val His Glu Gln Pro Thr Lys Gly Leu
                425                 430                 435
Ser Gly Phe Gln Glu Ala Leu Asn Val Thr Ser His Arg Val Glu
                440                 445                 450
Met Pro Arg Gln Asn Ser Asp Pro Thr Ser Glu Asn Pro Pro Leu
                455                 460                 465
Pro Thr Arg Ile Glu Lys Phe Asp Arg Ser Ser Trp Leu Arg Gln
                470                 475                 480
Glu Glu Asp Ile Pro Pro Lys Val Pro Gln Arg Thr Thr Ser Ile
                485                 490                 495
Ser Pro Ala Leu Ala Arg Lys Asn Ser Pro Gly Asn Gly Ser Ala
                500                 505                 510
Leu Gly Pro Arg Leu Gly Ser Gln Pro Ile Arg Ala Ser Asn Pro
                515                 520                 525
Asp Leu Arg Arg Thr Glu Pro Ile Leu Glu Ser Pro Leu Gln Arg
                530                 535                 540
Thr Ser Ser Gly Ser Ser Ser Ser Ser Ser Thr Pro Ser Ser Gln
                545                 550                 555
Pro Ser Ser Gln Gly Gly Ser Gln Pro Gly Ser Gln Ala Gly Ser
                560                 565                 570
Ser Gly Arg Thr Arg Val Arg Ala Asn Ser Lys Ser Glu Gly Ser
                575                 580                 585
Pro Val Leu Pro His Glu Pro Ala Lys Val Lys Pro Glu Glu Ser
                590                 595                 600
Arg Asp Ile Thr Arg Pro Ser Arg Pro Ala Asp Leu Thr Ala Leu
                605                 610                 615
Ala Lys Glu Leu Arg Glu Leu Arg Ile Glu Glu Thr Asn Arg Pro
                620                 625                 630
Met Lys Lys Val Thr Asp Tyr Ser Ser Ser Ser Glu Glu Ser Glu
                635                 640                 645
Ser Ser Glu Glu Glu Glu Glu Asp Gly Glu Ser Glu Thr His Asp
                650                 655                 660
Gly Thr Val Ala Val Ser Asp Ile Pro Arg Leu Ile Pro Thr Gly
                665                 670                 675
Ala Pro Gly Ser Asn Glu Gln Tyr Asn Val Gly Met Val Gly Thr
                680                 685                 690
His Gly Leu Glu Thr Ser His Ala Asp Ser Phe Ser Gly Ser Ile
                695                 700                 705
```

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Ser Arg Glu Gly Thr Leu Met Ile Arg Glu Thr Ser Gly Glu Lys
                710                 715                 720
Lys Arg Ser Gly His Ser Asp Ser Asn Gly Phe Ala Gly His Ile
                725                 730                 735
Asn Leu Pro Asp Leu Val Gln Gln Ser His Ser Pro Ala Gly Thr
                740                 745                 750
Pro Thr Glu Gly Leu Gly Arg Val Ser Thr His Ser Gln Glu Met
                755                 760                 765
Asp Ser Gly Thr Glu Tyr Gly Met Gly Ser Ser Thr Lys Ala Ser
                770                 775                 780
Phe Thr Pro Phe Val Asp Pro Arg Val Tyr Gln Thr Ser Pro Thr
                785                 790                 795
Asp Glu Asp Glu Glu Asp Glu Glu Ser Ser Ala Ala Ala Leu Phe
                800                 805                 810
Thr Ser Glu Leu Leu Arg Gln Glu Gln Ala Lys Leu Asn Glu Ala
                815                 820                 825
Arg Lys Ile Ser Val Val Asn Val Asn Pro Thr Asn Ile Arg Pro
                830                 835                 840
His Ser Asp Thr Pro Glu Ile Arg Gln Tyr Lys Lys Arg Phe Asn
                845                 850                 855
Ser Glu Ile Leu Cys Ala Ala Leu Trp Gly Val Asn Leu Leu Val
                860                 865                 870
Gly Thr Glu Asn Gly Leu Met Leu Leu Asp Arg Ser Gly Gln Gly
                875                 880                 885
Lys Val Tyr Asn Leu Ile Asn Arg Arg Arg Phe Gln Gln Met Asp
                890                 895                 900
Val Leu Glu Gly Leu Asn Val Leu Val Thr Ile Ser Gly Lys Lys
                905                 910                 915
Asn Lys Leu Arg Val Tyr Tyr Leu Ser Trp Leu Arg Asn Arg Ile
                920                 925                 930
Leu His Asn Asp Pro Glu Val Glu Lys Lys Gln Gly Trp Ile Thr
                935                 940                 945
Val Gly Asp Leu Glu Gly Cys Ile His Tyr Lys Val Val Lys Tyr
                950                 955                 960
Glu Arg Ile Lys Phe Leu Val Ile Ala Leu Lys Asn Ala Val Glu
                965                 970                 975
Ile Tyr Ala Trp Ala Pro Lys Pro Tyr His Lys Phe Met Ala Phe
                980                 985                 990
Lys Ser Phe Ala Asp Leu Gln His Lys Pro Leu Leu Val Asp Leu
                995                1000                1005
Thr Val Glu Glu Gly Gln Arg Leu Lys Val Ile Phe Gly Ser His
               1010                1015                1020
Thr Gly Phe His Val Ile Asp Val Asp Ser Gly Asn Ser Tyr Asp
               1025                1030                1035
Ile Tyr Ile Pro Ser His Ile Gln Gly Asn Ile Thr Pro His Ala
               1040                1045                1050
Ile Val Ile Leu Pro Lys Thr Asp Gly Met Glu Met Leu Val Cys
               1055                1060                1065
Tyr Glu Asp Glu Gly Val Tyr Val Asp Thr Tyr Gly Arg Ile Thr
               1070                1075                1080
Lys Asp Val Val Leu Gln Trp Gly Glu Met Pro Thr Ser Val Ala
               1085                1090                1095
Tyr Ile His Ser Asp Gln Ile Met Gly Trp Gly Glu Lys Ala Ile
               1100                1105                1110
Glu Ile Arg Ser Val Glu Thr Gly His Leu Asp Gly Val Phe Met
               1115                1120                1125
His Lys Arg Ala Gln Arg Leu Lys Phe Leu Cys Glu Arg Asn Asp
               1130                1135                1140
Lys Val Phe Phe Ala Ser Val Arg Ser Gly Gly Ser Ser Gln Val
               1145                1150                1155
Phe Phe Met Thr Leu Asn Arg Asn Ser Met Met Asn Trp
               1160                1165
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<210> 13

<211> 650
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7517148CD1

<400> 13
Met Ala Asp Leu Glu Ala Val Leu Ala Asp Val Ser Tyr Leu Met
1 5 10 15
Ala Met Glu Lys Ser Lys Ala Thr Pro Ala Ala Arg Ala Ser Lys
20 25 30
Arg Ile Val Leu Pro Glu Pro Ser Ile Arg Ser Val Met Gln Lys
35 40 45
Tyr Leu Ala Glu Arg Asn Glu Ile Thr Leu Asp Lys Ile Phe Asn
50 55 60
Gln Lys Ile Gly Phe Leu Leu Phe Lys Asp Phe Cys Leu Asn Glu
65 70 75
Ile Asn Glu Ala Val Pro Gln Val Lys Phe Tyr Glu Glu Ile Lys
80 85 90
Glu Tyr Glu Lys Leu Asp Asn Glu Glu Asp Arg Leu Cys Arg Ser
95 100 105
Arg Gln Ile Tyr Asp Ala Tyr Ile Met Lys Glu Leu Leu Ser Cys
110 115 120
Ser His Pro Phe Ser Lys Gln Ala Val Glu His Val Gln Ser His
125 130 135
Leu Ser Lys Lys Gln Val Thr Ser Thr Leu Phe Gln Pro Tyr Ile
140 145 150
Glu Glu Ile Cys Glu Ser Leu Arg Gly Asp Ile Phe Gln Lys Phe
155 160 165
Met Glu Ser Asp Lys Phe Thr Arg Phe Cys Gln Trp Lys Asn Val
170 175 180
Glu Leu Asn Ile His Leu Thr Met Asn Glu Phe Ser Val His Arg
185 190 195
Ile Ile Gly Arg Gly Gly Phe Gly Glu Val Tyr Gly Cys Arg Lys
200 205 210
Ala Asp Thr Gly Lys Met Tyr Ala Met Lys Cys Leu Asp Lys Lys
215 220 225
Arg Ile Lys Met Lys Gln Gly Glu Thr Leu Ala Leu Asn Glu Arg
230 235 240
Ile Met Leu Ser Leu Val Ser Thr Gly Asp Cys Pro Phe Ile Val
245 250 255
Cys Met Thr Tyr Ala Phe His Thr Pro Asp Lys Leu Cys Phe Ile
260 265 270
Leu Asp Leu Met Asn Gly Gly Asp Leu His Tyr His Leu Ser Gln
275 280 285
His Gly Val Phe Ser Glu Lys Glu Met Arg Phe Tyr Ala Thr Glu
290 295 300
Ile Ile Leu Gly Leu Glu His Met His Asn Arg Phe Val Val Tyr
305 310 315
Arg Asp Leu Lys Pro Ala Asn Ile Leu Leu Asp Glu His Gly His
320 325 330
Ala Arg Ile Ser Asp Leu Gly Leu Ala Cys Asp Phe Ser Lys Lys
335 340 345
Lys Pro His Ala Ser Val Gly Thr His Gly Tyr Met Ala Pro Glu
350 355 360
Val Leu Gln Lys Gly Thr Ala Tyr Asp Ser Ser Ala Asp Trp Phe
365 370 375
Ser Leu Gly Cys Met Leu Phe Lys Leu Leu Arg Gly His Ser Pro
380 385 390
Phe Arg Gln His Lys Thr Lys Asp Lys His Glu Ile Asp Arg Met
395 400 405
Thr Leu Thr Val Asn Val Glu Leu Pro Asp Thr Phe Ser Pro Glu

```
                410                 415                 420
Leu Lys Ser Leu Leu Glu Gly Leu Leu Gln Arg Asp Val Ser Lys
                425                 430                 435
Arg Leu Gly Cys His Gly Gly Gly Ser Gln Glu Val Lys Glu His
                440                 445                 450
Ser Phe Phe Lys Gly Val Asp Trp Gln His Val Tyr Leu Gln Lys
                455                 460                 465
Tyr Pro Pro Pro Leu Ile Pro Pro Arg Gly Glu Val Asn Ala Ala
                470                 475                 480
Asp Ala Phe Asp Ile Gly Ser Phe Asp Glu Glu Asp Thr Lys Gly
                485                 490                 495
Ile Lys Leu Leu Asp Cys Asp Gln Glu Leu Tyr Lys Asn Phe Pro
                500                 505                 510
Leu Val Ile Ser Glu Arg Trp Gln Gln Glu Val Thr Glu Thr Val
                515                 520                 525
Tyr Glu Ala Val Asn Ala Asp Thr Asp Lys Ile Glu Ala Arg Lys
                530                 535                 540
Arg Ala Lys Asn Lys Gln Leu Gly His Glu Glu Asp Tyr Ala Leu
                545                 550                 555
Gly Lys Asp Cys Ile Met His Gly Tyr Met Leu Lys Leu Gly Asn
                560                 565                 570
Pro Phe Leu Thr Gln Trp Gln Arg Arg Tyr Phe Tyr Leu Phe Pro
                575                 580                 585
Asn Arg Leu Glu Trp Arg Gly Glu Gly Glu Ser Arg Ser Asp Pro
                590                 595                 600
Glu Phe Val Gln Trp Lys Lys Glu Leu Asn Glu Thr Phe Lys Glu
                605                 610                 615
Ala Arg Arg Leu Leu Arg Arg Ala Pro Lys Phe Leu Asn Lys Pro
                620                 625                 630
Arg Ser Gly Thr Val Glu Leu Pro Lys Pro Ser Leu Cys His Arg
                635                 640                 645
Asn Ser Asn Gly Leu
                650
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<210> 14
<211> 603
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7517238CD1

<400> 14

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Met Lys Asp Tyr Asp Glu Leu Leu Lys Tyr Tyr Glu Leu His Glu
  1                 5                  10                  15
Thr Ile Gly Thr Gly Gly Phe Ala Lys Val Lys Leu Ala Cys His
                 20                  25                  30
Ile Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp Lys Asn
                 35                  40                  45
Thr Leu Gly Ser Asp Leu Pro Arg Ile Lys Thr Glu Ile Glu Ala
                 50                  55                  60
Leu Lys Asn Leu Arg His Gln His Ile Cys Gln Leu Tyr His Val
                 65                  70                  75
Leu Glu Thr Ala Asn Lys Ile Phe Met Val Leu Glu Glu Asn Leu
                 80                  85                  90
Leu Phe Asp Glu Tyr His Lys Leu Lys Leu Ile Asp Phe Gly Leu
                 95                 100                 105
Cys Ala Lys Pro Lys Gly Asn Lys Asp Tyr His Leu Gln Thr Cys
                110                 115                 120
Cys Gly Ser Leu Ala Tyr Ala Ala Pro Glu Leu Ile Gln Gly Lys
                125                 130                 135
Ser Tyr Leu Gly Ser Glu Ala Asp Val Trp Ser Met Gly Ile Leu
                140                 145                 150
```

```
Leu Tyr Val Leu Met Cys Gly Phe Leu Pro Phe Asp Asp Asp Asn
                155                 160                 165
Val Met Ala Leu Tyr Lys Lys Ile Met Arg Gly Lys Tyr Asp Val
            170                 175                 180
Pro Lys Trp Leu Ser Pro Ser Ser Ile Leu Leu Leu Gln Gln Met
        185                 190                 195
Leu Gln Val Asp Pro Lys Lys Arg Ile Ser Met Lys Asn Leu Leu
    200                 205                 210
Asn His Pro Trp Ile Met Gln Asp Tyr Asn Tyr Pro Val Glu Trp
215                 220                 225
Gln Ser Lys Asn Pro Phe Ile His Leu Asp Asp Asp Cys Val Thr
                230                 235                 240
Glu Leu Ser Val His His Arg Asn Asn Arg Gln Thr Met Glu Asp
            245                 250                 255
Leu Ile Ser Leu Trp Gln Tyr Asp His Leu Thr Ala Thr Tyr Leu
        260                 265                 270
Leu Leu Leu Ala Lys Lys Ala Arg Gly Lys Pro Val Arg Leu Arg
    275                 280                 285
Leu Ser Ser Phe Ser Cys Gly Gln Ala Ser Ala Thr Pro Phe Thr
290                 295                 300
Asp Ile Lys Ser Asn Asn Trp Ser Leu Glu Asp Val Thr Ala Ser
                305                 310                 315
Asp Lys Asn Tyr Val Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu
            320                 325                 330
Asp Asp Leu Ser Thr Gly Ala Ala Thr Pro Arg Thr Ser Gln Phe
        335                 340                 345
Thr Lys Tyr Trp Thr Glu Ser Asn Gly Ala Glu Ser Lys Ser Leu
    350                 355                 360
Thr Pro Ala Leu Cys Arg Thr Pro Ala Asn Lys Leu Lys Asn Lys
365                 370                 375
Glu Asn Val Tyr Thr Pro Lys Ser Ala Val Lys Asn Glu Glu Tyr
                380                 385                 390
Phe Met Phe Pro Glu Pro Lys Thr Pro Val Asn Lys Asn Gln His
            395                 400                 405
Lys Arg Glu Ile Leu Thr Thr Pro Asn Arg Tyr Thr Thr Pro Ser
        410                 415                 420
Lys Ala Arg Asn Gln Cys Leu Lys Glu Thr Pro Ile Lys Ile Pro
    425                 430                 435
Val Asn Ser Thr Gly Thr Asp Lys Leu Met Thr Gly Val Ile Ser
440                 445                 450
Pro Glu Arg Arg Cys Arg Ser Val Glu Leu Asp Leu Asn Gln Ala
                455                 460                 465
His Met Glu Glu Thr Pro Lys Arg Lys Gly Ala Lys Val Phe Gly
            470                 475                 480
Ser Leu Glu Arg Gly Leu Asp Lys Val Ile Thr Val Leu Thr Arg
        485                 490                 495
Ser Lys Arg Lys Gly Ser Ala Arg Asp Gly Pro Arg Arg Leu Lys
    500                 505                 510
Leu His Tyr Asn Val Thr Thr Thr Arg Leu Val Asn Pro Asp Gln
515                 520                 525
Leu Leu Asn Glu Ile Met Ser Ile Leu Pro Lys Lys His Val Asp
                530                 535                 540
Phe Val Gln Lys Gly Tyr Thr Leu Lys Cys Gln Thr Gln Ser Asp
            545                 550                 555
Phe Gly Lys Val Thr Met Gln Phe Glu Leu Glu Val Cys Gln Leu
        560                 565                 570
Gln Lys Pro Asp Val Val Gly Ile Arg Arg Gln Arg Leu Lys Gly
    575                 580                 585
Asp Ala Trp Val Tyr Lys Arg Leu Val Glu Asp Ile Leu Ser Ser
590                 595                 600
Cys Lys Val
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<210> 15

<211> 750
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7518685CD1

<400> 15
Met Asp Gln Arg Glu Ile Leu Gln Lys Phe Leu Asp Glu Ala Gln
1 5 10 15
Ser Lys Lys Ile Thr Lys Glu Glu Phe Ala Asn Glu Phe Leu Lys
20 25 30
Leu Lys Arg Gln Ser Thr Lys Tyr Lys Ala Asp Lys Thr Tyr Pro
35 40 45
Thr Thr Val Ala Glu Lys Pro Lys Asn Ile Lys Lys Asn Arg Tyr
50 55 60
Lys Asp Ile Leu Pro Tyr Asp Tyr Ser Arg Val Glu Leu Ser Leu
65 70 75
Ile Thr Ser Asp Glu Asp Ser Ser Tyr Ile Asn Ala Asn Phe Ile
80 85 90
Lys Gly Val Tyr Gly Pro Lys Ala Tyr Ile Ala Thr Gln Gly Pro
95 100 105
Leu Ser Thr Thr Leu Leu Asp Phe Trp Arg Met Ile Trp Glu Tyr
110 115 120
Ser Val Leu Glu Thr Arg Thr Ile Tyr Gln Phe His Tyr Glu Asn
125 130 135
Trp Pro Asp His Asp Val Pro Ser Ser Ile Asp Pro Ile Leu Glu
140 145 150
Leu Ile Trp Asp Val Arg Cys Tyr Gln Glu Asp Asp Ser Val Pro
155 160 165
Ile Cys Ile His Cys Ser Ala Gly Cys Gly Arg Thr Gly Val Ile
170 175 180
Cys Ala Ile Asp Tyr Thr Trp Met Leu Leu Lys Asp Gly Ile Ile
185 190 195
Pro Glu Asn Phe Ser Val Phe Ser Leu Ile Arg Glu Met Arg Thr
200 205 210
Gln Arg Pro Ser Leu Val Gln Thr Gln Glu Gln Tyr Glu Leu Val
215 220 225
Tyr Asn Ala Val Leu Glu Leu Phe Lys Arg Gln Met Asp Val Ile
230 235 240
Arg Asp Lys His Ser Gly Thr Glu Ser Gln Ala Lys His Cys Ile
245 250 255
Pro Glu Lys Asn His Thr Leu Gln Ala Asp Ser Tyr Ser Pro Asn
260 265 270
Leu Pro Lys Ser Thr Thr Lys Ala Ala Lys Met Met Asn Gln Gln
275 280 285
Arg Thr Lys Met Glu Ile Lys Glu Ser Ser Ser Phe Asp Phe Arg
290 295 300
Thr Ser Glu Ile Ser Ala Lys Glu Glu Leu Val Leu His Pro Ala
305 310 315
Lys Ser Ser Thr Ser Phe Asp Phe Leu Glu Leu Asn Tyr Ser Phe
320 325 330
Asp Lys Asn Ala Asp Thr Thr Met Lys Trp Gln Thr Lys Ala Phe
335 340 345
Pro Ile Val Gly Glu Pro Leu Gln Lys His Gln Ser Leu Asp Leu
350 355 360
Gly Ser Leu Leu Phe Glu Gly Cys Ser Asn Ser Lys Pro Val Asn
365 370 375
Ala Ala Gly Arg Tyr Phe Asn Ser Lys Val Pro Ile Thr Arg Thr
380 385 390
Lys Ser Thr Pro Phe Glu Leu Ile Gln Gln Arg Glu Thr Lys Glu
395 400 405
Val Asp Ser Lys Glu Asn Phe Ser Tyr Leu Glu Ser Gln Pro His

```
                410                 415                 420
Asp Ser Cys Phe Val Glu Met Gln Ala Gln Lys Val Met His Val
                425                 430                 435
Ser Ser Ala Glu Leu Asn Tyr Ser Leu Pro Tyr Asp Ser Lys His
                440                 445                 450
Gln Ile Arg Asn Ala Ser Asn Val Lys His His Asp Ser Ser Ala
                455                 460                 465
Leu Gly Val Tyr Ser Tyr Ile Pro Leu Val Glu Asn Pro Tyr Phe
                470                 475                 480
Ser Ser Trp Pro Pro Ser Gly Thr Ser Ser Lys Met Ser Leu Asp
                485                 490                 495
Leu Pro Glu Lys Arg Asp Gly Thr Val Phe Pro Ser Ser Leu Leu
                500                 505                 510
Pro Thr Ser Ser Thr Ser Leu Phe Ser Tyr Tyr Asn Ser His Asp
                515                 520                 525
Ser Leu Ser Leu Asn Ser Pro Thr Asn Ile Ser Ser Leu Leu Asn
                530                 535                 540
Gln Glu Ser Ala Val Leu Ala Thr Ala Pro Arg Ile Asp Asp Glu
                545                 550                 555
Ile Pro Pro Pro Leu Pro Val Arg Thr Pro Glu Ser Phe Ile Val
                560                 565                 570
Val Glu Glu Ala Gly Glu Phe Ser Pro Asn Val Pro Asn Pro Leu
                575                 580                 585
Ser Ser Ala Val Lys Val Lys Ile Gly Thr Ser Leu Glu Trp Gly
                590                 595                 600
Gly Thr Ser Glu Pro Lys Lys Phe Asp Asp Ser Val Ile Leu Arg
                605                 610                 615
Pro Ser Lys Ser Val Lys Leu Arg Ser Pro Lys Ser Glu Leu His
                620                 625                 630
Gln Asp Arg Ser Ser Pro Pro Pro Pro Leu Pro Glu Arg Thr Leu
                635                 640                 645
Glu Ser Phe Phe Leu Ala Asp Glu Asp Cys Met Gln Ala Gln Ser
                650                 655                 660
Ile Glu Thr Tyr Ser Thr Ser Tyr Pro Asp Thr Met Glu Asn Ser
                665                 670                 675
Thr Ser Ser Lys Gln Thr Leu Lys Thr Pro Gly Lys Ser Phe Thr
                680                 685                 690
Arg Ser Lys Ser Leu Lys Ile Leu Arg Asn Met Lys Lys Ser Ile
                695                 700                 705
Cys Asn Ser Cys Pro Pro Asn Lys Pro Ala Glu Ser Val Gln Ser
                710                 715                 720
Asn Asn Ser Ser Ser Phe Leu Asn Phe Gly Phe Ala Asn Arg Phe
                725                 730                 735
Ser Lys Pro Glu Gly Pro Arg Asn Pro Pro Pro Thr Trp Asn Ile
                740                 745                 750
```

<210> 16
<211> 206
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7520192CD1

<400> 16

```
Met Thr Ser Arg Phe Arg Leu Pro Ala Gly Arg Thr Tyr Asn Val
  1               5                  10                  15
Arg Ala Ser Glu Leu Ala Arg Asp Arg Gln His Thr Glu Val Val
                 20                  25                  30
Cys Asn Ile Leu Leu Leu Asp Asn Thr Val Gln Ala Phe Lys Val
                 35                  40                  45
Asn Lys His Asp Gln Gly Gln Val Leu Leu Asp Val Val Phe Lys
```

```
                  50                  55                  60
His Leu Asp Leu Thr Glu Gln Asp Tyr Phe Gly Leu Gln Leu Ala
                  65                  70                  75
Asp Asp Ser Thr Asp Asn Pro Arg Trp Leu Asp Pro Asn Lys Pro
                  80                  85                  90
Ile Arg Lys Gln Leu Lys Arg Gly Ser Pro Tyr Ser Leu Asn Phe
                  95                 100                 105
Arg Val Lys Phe Phe Val Ser Asp Pro Asn Lys Leu Gln Glu Glu
                 110                 115                 120
Tyr Thr Arg Gly Leu Ser Pro Ala Glu Ala Glu Phe Asn Tyr Leu
                 125                 130                 135
Asn Thr Ala Arg Thr Leu Glu Leu Tyr Gly Val Glu Phe His Tyr
                 140                 145                 150
Ala Arg Asp Gln Ser Asn Asn Glu Ile Met Ile Gly Val Met Ser
                 155                 160                 165
Gly Gly Ile Leu Ile Tyr Lys Asn Arg Val Arg Met Asn Thr Phe
                 170                 175                 180
Pro Trp Leu Lys Ile Val Lys Ile Ser Phe Lys Cys Lys Gln Phe
                 185                 190                 195
Phe Ile Gln Leu Arg Lys Glu Leu Ile Pro Lys
                 200                 205
```

<210> 17
<211> 733
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7520428CD1

<400> 17

```
Met Met Lys Arg Arg Arg Glu Arg Leu Gly Ala Pro Cys Leu Arg
  1               5                  10                  15
Ile Gln Ile Ser Thr Leu Cys Arg Gly Ala Glu Val Asn Gln His
                 20                  25                  30
Met Phe Ser Pro Thr Ser Ala Pro Ala Leu Phe Leu Thr Lys Val
                 35                  40                  45
Pro Phe Ser Ala Asp Cys Ala Leu Ala Thr Ser Pro Leu Ala Ile
                 50                  55                  60
Phe Leu Asn Leu Arg Ala His Ser Ser Pro Gly Thr Pro Cys Ser
                 65                  70                  75
Ser Arg Pro Leu Pro Trp Ser Cys Arg Thr Ser Asn Arg Lys Ser
                 80                  85                  90
Leu Ile Val Thr Ser Ser Thr Ser Pro Thr Leu Pro Arg Pro His
                 95                 100                 105
Ser Pro Leu His Gly His Thr Gly Asn Ser Pro Leu Asp Ser Pro
                110                 115                 120
Arg Asn Phe Ser Pro Asn Ala Pro Ala His Phe Ser Phe Val Pro
                125                 130                 135
Ala Arg Arg Thr Asp Gly Arg Arg Trp Ser Leu Ala Ser Leu Pro
                140                 145                 150
Ser Ser Gly Tyr Gly Thr Asn Thr Pro Ser Ser Thr Val Ser Ser
                155                 160                 165
Ser Cys Ser Ser Gln Glu Lys Leu His Gln Leu Pro Phe Gln Pro
                170                 175                 180
Thr Ala Asp Glu Leu His Phe Leu Thr Lys His Phe Ser Thr Glu
                185                 190                 195
Ser Val Pro Asp Glu Glu Gly Arg Gln Ser Pro Ala Met Arg Pro
                200                 205                 210
Arg Ser Arg Ser Leu Ser Pro Gly Arg Ser Pro Val Ser Phe Asp
                215                 220                 225
Ser Glu Ile Ile Met Met Asn His Val Tyr Lys Glu Arg Phe Pro
                230                 235                 240
```

```
Lys Ala Thr Ala Gln Met Glu Glu Arg Leu Ala Glu Phe Ile Ser
245                 250                 255
Ser Asn Thr Pro Asp Ser Val Leu Pro Leu Ala Asp Gly Ala Leu
260                 265                 270
Ser Phe Ile His His Gln Val Ile Glu Met Ala Arg Asp Cys Leu
275                 280                 285
Asp Lys Ser Arg Ser Gly Leu Ile Thr Ser Gln Tyr Phe Tyr Glu
290                 295                 300
Leu Gln Glu Asn Leu Glu Lys Leu Leu Gln Asp Ala His Glu Arg
305                 310                 315
Ser Glu Ser Ser Glu Val Ala Phe Val Met Gln Leu Val Lys Lys
320                 325                 330
Leu Met Ile Ile Ile Ala Arg Pro Ala Arg Leu Leu Glu Cys Leu
335                 340                 345
Glu Phe Asp Pro Glu Glu Phe Tyr His Leu Leu Glu Ala Ala Glu
350                 355                 360
Gly His Ala Lys Glu Gly Gln Gly Ile Lys Cys Asp Ile Pro Arg
365                 370                 375
Tyr Ile Val Ser Gln Leu Gly Leu Thr Arg Asp Pro Leu Glu Glu
380                 385                 390
Met Ala Gln Leu Ser Ser Cys Asp Ser Pro Asp Thr Pro Glu Thr
395                 400                 405
Asp Asp Ser Ile Glu Gly His Gly Ala Ser Leu Pro Ser Lys Lys
410                 415                 420
Thr Pro Ser Glu Glu Asp Phe Glu Thr Ile Lys Leu Ile Ser Asn
425                 430                 435
Gly Ala Tyr Gly Ala Val Phe Leu Val Arg His Lys Ser Thr Arg
440                 445                 450
Gln Arg Phe Ala Met Lys Lys Ile Asn Lys Gln Asn Leu Ile Leu
455                 460                 465
Arg Asn Gln Ile Gln Gln Ala Phe Val Glu Arg Asp Ile Leu Thr
470                 475                 480
Phe Ala Glu Asn Pro Phe Val Val Ser Met Phe Cys Ser Phe Asp
485                 490                 495
Thr Lys Arg His Leu Cys Met Val Met Glu Tyr Val Glu Gly Gly
500                 505                 510
Asp Cys Ala Thr Leu Leu Lys Asn Ile Gly Ala Leu Pro Val Asp
515                 520                 525
Met Val Arg Leu Tyr Phe Ala Glu Thr Val Leu Ala Leu Glu Tyr
530                 535                 540
Leu His Asn Tyr Gly Ile Val His Arg Asp Leu Lys Pro Asp Asn
545                 550                 555
Leu Leu Ile Thr Ser Met Gly His Ile Lys Leu Thr Asp Phe Gly
560                 565                 570
Leu Ser Lys Met Gly Leu Met Ser Leu Thr Thr Asn Leu Tyr Glu
575                 580                 585
Gly His Ile Glu Lys Asp Ala Arg Glu Phe Leu Asp Lys Gln Val
590                 595                 600
Cys Gly Thr Pro Glu Tyr Ile Ala Pro Glu Val Ile Leu Arg Gln
605                 610                 615
Gly Tyr Gly Lys Pro Val Asp Trp Trp Ala Met Gly Ile Ile Leu
620                 625                 630
Tyr Glu Phe Leu Val Gly Cys Val Pro Phe Phe Gly Asp Thr Pro
635                 640                 645
Glu Glu Leu Phe Gly Gln Val Ile Ser Asp Glu Ile Val Trp Pro
650                 655                 660
Glu Gly Asp Glu Ala Leu Pro Pro Asp Ala Gln Asp Leu Thr Ser
665                 670                 675
Lys Leu Leu His Gln Asn Pro Leu Glu Arg Leu Gly Thr Gly Ser
680                 685                 690
Ala Tyr Glu Val Lys Gln His Pro Phe Phe Thr Gly Leu Asp Trp
695                 700                 705
Thr Gly Leu Leu Arg Gln Lys Ala Glu Phe Ile Pro Gln Leu Glu
710                 715                 720
```

Ser Glu Asp Asp Thr Ser Tyr Phe Asp Thr Arg Ser Glu
725 730

<210> 18
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7522586CD1

<400> 18
Met Gly Asp Glu Lys Asp Ser Trp Lys Val Lys Thr Leu Asp Glu
1 5 10 15
Ile Leu Gln Glu Lys Lys Arg Arg Lys Glu Gln Glu Glu Lys Ala
20 25 30
Glu Ile Lys Arg Leu Lys Asn Ser Asp Asp Arg Asp Ser Lys Arg
35 40 45
Asp Ser Leu Glu Glu Gly Glu Leu Arg Asp His Cys Met Glu Ile
50 55 60
Thr Ile Arg Asn Ser Pro Tyr Arg Arg Glu Asp Ser Met Glu Asp
65 70 75
Arg Gly Glu Glu Asp Asp Ser Leu Ala Ile Lys Pro Pro Gln Gln
80 85 90
Met Ser Arg Lys Glu Lys Val His His Arg Lys Asp Glu Lys Arg
95 100 105
Lys Glu Lys Trp Thr Ala Trp Ser Ser
110

<210> 19
<211> 612
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524017CD1

<400> 19
Met Lys Asp Tyr Asp Glu Leu Leu Lys Tyr Tyr Glu Leu His Glu
1 5 10 15
Thr Ile Gly Thr Gly Gly Phe Ala Lys Val Lys Leu Ala Cys His
20 25 30
Ile Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp Lys Asn
35 40 45
Thr Leu Gly Tyr Cys Pro Gly Gly Glu Leu Phe Asp Tyr Ile Ile
50 55 60
Ser Gln Asp Arg Leu Ser Glu Glu Glu Thr Arg Val Val Phe Arg
65 70 75
Gln Ile Val Ser Ala Val Ala Tyr Val His Ser Gln Gly Tyr Ala
80 85 90
His Arg Asp Leu Lys Pro Glu Asn Leu Leu Phe Asp Glu Tyr His
95 100 105
Lys Leu Lys Leu Ile Asp Phe Gly Leu Cys Ala Lys Pro Lys Gly
110 115 120
Asn Lys Asp Tyr His Leu Gln Thr Cys Cys Gly Ser Leu Ala Tyr
125 130 135
Ala Ala Pro Glu Leu Ile Gln Gly Lys Ser Tyr Leu Gly Ser Glu
140 145 150
Ala Asp Val Trp Ser Met Gly Ile Leu Leu Tyr Val Leu Met Cys
155 160 165
Gly Phe Leu Pro Phe Asp Asp Asp Asn Val Met Ala Leu Tyr Lys
170 175 180

```
Lys Ile Met Arg Gly Lys Tyr Asp Val Pro Lys Trp Leu Ser Pro
                185                 190                 195
Ser Ser Ile Leu Leu Leu Gln Gln Met Leu Gln Val Asp Pro Lys
            200                 205                 210
Lys Arg Ile Ser Met Lys Asn Leu Leu Asn His Pro Trp Ile Met
        215                 220                 225
Gln Asp Tyr Asn Tyr Pro Val Glu Trp Gln Ser Lys Asn Pro Phe
    230                 235                 240
Ile His Leu Asp Asp Asp Cys Val Thr Glu Leu Ser Val His His
245                 250                 255
Arg Asn Asn Arg Gln Thr Met Glu Asp Leu Ile Ser Leu Trp Gln
            260                 265                 270
Tyr Asp His Leu Thr Ala Thr Tyr Leu Leu Leu Leu Ala Lys Lys
        275                 280                 285
Ala Arg Gly Lys Pro Val Arg Leu Arg Leu Ser Ser Phe Ser Cys
    290                 295                 300
Gly Gln Ala Ser Ala Thr Pro Phe Thr Asp Ile Lys Ser Asn Asn
305                 310                 315
Trp Ser Leu Glu Asp Val Thr Ala Ser Asp Lys Asn Tyr Val Ala
            320                 325                 330
Gly Leu Ile Asp Tyr Asp Trp Cys Glu Asp Asp Leu Ser Thr Gly
        335                 340                 345
Ala Ala Thr Pro Arg Thr Ser Gln Phe Thr Lys Tyr Trp Thr Glu
    350                 355                 360
Ser Asn Gly Val Glu Ser Lys Ser Leu Thr Pro Ala Leu Cys Arg
365                 370                 375
Thr Pro Ala Asn Lys Leu Lys Asn Lys Glu Asn Val Tyr Thr Pro
            380                 385                 390
Lys Ser Ala Val Lys Asn Glu Glu Tyr Phe Met Phe Pro Glu Pro
        395                 400                 405
Lys Thr Pro Val Asn Lys Asn Gln His Lys Arg Glu Ile Leu Thr
    410                 415                 420
Thr Pro Asn Arg Tyr Thr Thr Pro Ser Lys Ala Arg Asn Gln Cys
425                 430                 435
Leu Lys Glu Thr Pro Ile Lys Ile Pro Val Asn Ser Thr Gly Thr
            440                 445                 450
Asp Lys Leu Met Thr Gly Val Ile Ser Pro Glu Arg Arg Cys Arg
        455                 460                 465
Ser Val Glu Leu Asp Leu Asn Gln Ala His Met Glu Glu Thr Pro
    470                 475                 480
Lys Arg Lys Gly Ala Lys Val Phe Gly Ser Leu Glu Arg Gly Leu
485                 490                 495
Asp Lys Val Ile Thr Val Leu Thr Arg Ser Lys Arg Lys Gly Ser
            500                 505                 510
Ala Arg Asp Gly Pro Arg Arg Leu Lys Leu His Tyr Asn Val Thr
        515                 520                 525
Thr Thr Arg Leu Val Asn Pro Asp Gln Leu Leu Asn Glu Ile Met
    530                 535                 540
Ser Ile Leu Pro Lys Lys His Val Asp Phe Val Gln Lys Gly Tyr
545                 550                 555
Thr Leu Lys Cys Gln Thr Gln Ser Asp Phe Gly Lys Val Thr Met
            560                 565                 570
Gln Phe Glu Leu Glu Val Cys Gln Leu Gln Lys Pro Asp Val Val
        575                 580                 585
Gly Ile Arg Arg Gln Arg Leu Lys Gly Asp Ala Trp Val Tyr Lys
    590                 595                 600
Arg Leu Val Glu Asp Ile Leu Ser Ser Cys Lys Val
605                 610
```

<210> 20
<211> 311
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7525773CD1

<400> 20
Met Leu Ser Glu Val Leu Leu Val Ser Ala Pro Gly Lys Val Ile
1 5 10 15
Leu His Gly Glu His Ala Val Val His Gly Lys Val Ala Leu Ala
20 25 30
Val Ser Leu Asn Leu Arg Thr Phe Leu Arg Leu Gln Pro His Ser
35 40 45
Asn Gly Lys Val Asp Leu Ser Leu Pro Asn Ile Gly Ile Lys Arg
50 55 60
Ala Trp Asp Val Ala Arg Leu Gln Ser Leu Asp Thr Ser Phe Leu
65 70 75
Glu Gln Gly Asp Val Thr Thr Pro Thr Ser Glu Gln Val Glu Lys
80 85 90
Leu Lys Glu Val Ala Gly Leu Pro Asp Asp Cys Ala Val Thr Glu
95 100 105
Arg Leu Ala Val Leu Ala Phe Leu Tyr Leu Tyr Leu Ser Ile Cys
110 115 120
Arg Lys Gln Arg Trp Thr Lys Glu Asp Leu Glu Leu Ile Asn Lys
125 130 135
Trp Ala Phe Gln Gly Glu Arg Met Ile His Gly Asn Pro Ser Gly
140 145 150
Val Asp Asn Ala Asp Ser Thr Trp Gly Gly Ala Leu Arg Tyr His
155 160 165
Gln Gly Lys Ile Ser Ser Leu Lys Arg Ser Pro Ala Leu Gln Ile
170 175 180
Leu Leu Thr Asn Ala Lys Val Pro Arg Asn Thr Arg Ala Leu Val
185 190 195
Ala Gly Val Arg Asn Arg Leu Leu Lys Phe Pro Glu Ile Val Ala
200 205 210
Pro Leu Leu Thr Ser Ile Asp Ala Ile Ser Leu Glu Cys Glu Arg
215 220 225
Val Leu Gly Glu Met Gly Glu Ala Pro Ala Pro Glu Gln Tyr Leu
230 235 240
Val Leu Glu Glu Leu Ile Asp Met Asn Gln His His Leu Asn Ala
245 250 255
Leu Gly Val Gly His Ala Ser Leu Asp Gln Leu Cys Gln Val Thr
260 265 270
Arg Ala Arg Gly Leu His Ser Lys Leu Thr Gly Ala Gly Gly Gly
275 280 285
Gly Cys Gly Ile Thr Leu Leu Lys Pro Gly Ile Pro Gly Gly Trp
290 295 300
Ser Ser Gln Lys Trp Arg Pro Arg Ser Arg Pro
305 310

<210> 21
<211> 206
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7525861CD1

<400> 21
Met Ser Ser Pro Arg Gly Phe Arg Ala Glu Pro Val Asn Asp Tyr
1 5 10 15
Glu Gly Asn Asp Ser Glu Ala Glu Asp Leu Asn Phe Arg Glu Thr
20 25 30
Leu Pro Ser Ser Ser Gln Glu Asn Thr Pro Arg Ser Lys Val Phe
35 40 45

```
Glu Asn Lys Val Asn Ser Glu Lys Val Lys Leu Ser Leu Arg Asn
                50                  55                  60
Phe Pro His Asn Asp Tyr Glu Asp Val Phe Glu Glu Pro Ser Glu
                65                  70                  75
Ser Gly Ser Asp Pro Ser Met Trp Thr Ala Arg Gly Pro Phe Arg
                80                  85                  90
Arg Gly Arg Trp Ser Ser Glu Asp Glu Glu Ala Ala Gly Pro Ser
                95                 100                 105
Gln Ala Leu Ser Pro Leu Leu Ser Asp Thr Arg Lys Ile Val Ser
               110                 115                 120
Glu Gly Glu Leu Asp Gln Leu Ala Gln Ile Arg Pro Leu Ile Phe
               125                 130                 135
Asn Phe His Glu Gln Thr Ala Ile Lys Asp Cys Leu Lys Ile Leu
               140                 145                 150
Glu Glu Lys Thr Ala Ala Tyr Asp Ile Met Gln Glu Phe Met Phe
               155                 160                 165
Asn Ile Met Asp Ile Val Ala Gln Met Arg Glu Gln Arg Ser Gly
               170                 175                 180
Met Val Gln Thr Lys Glu Gln Tyr His Phe Cys Tyr Asp Ile Val
               185                 190                 195
Leu Glu Val Leu Arg Lys Leu Leu Thr Leu Asp
               200                 205
```

<210> 22
<211> 1125
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2509577CD1

<400> 22

```
Met Pro Asp Gln Asp Lys Lys Val Lys Thr Thr Glu Lys Ser Thr
  1               5                  10                  15
Asp Lys Gln Gln Glu Ile Thr Ile Arg Asp Tyr Ser Asp Leu Lys
                20                  25                  30
Arg Leu Arg Cys Leu Leu Asn Val Gln Ser Ser Lys Gln Gln Leu
                35                  40                  45
Pro Ala Ile Asn Phe Asp Ser Ala Gln Asn Ser Met Thr Lys Ser
                50                  55                  60
Glu Pro Ala Ile Arg Ala Gly Gly His Arg Ala Arg Gly Gln Trp
                65                  70                  75
His Glu Ser Thr Glu Ala Val Glu Leu Glu Asn Phe Ser Ile Asn
                80                  85                  90
Tyr Lys Asn Glu Arg Asn Phe Ser Lys His Pro Gln Arg Lys Leu
                95                 100                 105
Phe Gln Glu Ile Phe Thr Ala Leu Val Lys Asn Arg Leu Ile Ser
               110                 115                 120
Arg Glu Trp Val Asn Arg Ala Pro Ser Ile His Phe Leu Arg Val
               125                 130                 135
Leu Ile Cys Leu Arg Leu Leu Met Arg Asp Pro Cys Tyr Gln Glu
               140                 145                 150
Ile Leu His Ser Leu Gly Gly Ile Glu Asn Leu Ala Gln Tyr Met
               155                 160                 165
Glu Ile Val Ala Asn Glu Tyr Leu Gly Tyr Gly Glu Glu Gln His
               170                 175                 180
Thr Val Asp Lys Leu Val Asn Met Thr Tyr Ile Phe Gln Lys Leu
               185                 190                 195
Ala Ala Val Lys Asp Gln Arg Glu Trp Val Thr Thr Ser Gly Ala
               200                 205                 210
His Lys Thr Leu Val Asn Leu Leu Gly Ala Arg Asp Thr Asn Val
               215                 220                 225
Leu Leu Gly Ser Leu Leu Ala Leu Ala Ser Leu Ala Glu Ser Gln
```

```
                230                 235                 240
Glu Cys Arg Glu Lys Ile Ser Glu Leu Asn Ile Val Glu Asn Leu
                245                 250                 255
Leu Met Ile Leu His Glu Tyr Asp Leu Leu Ser Lys Arg Leu Thr
                260                 265                 270
Ala Glu Leu Leu Arg Leu Leu Cys Ala Glu Pro Gln Val Lys Glu
                275                 280                 285
Gln Val Lys Leu Tyr Glu Gly Ile Pro Val Leu Leu Ser Leu Leu
                290                 295                 300
His Ser Asp His Leu Lys Leu Leu Trp Ser Ile Val Trp Ile Leu
                305                 310                 315
Val Gln Val Cys Glu Asp Pro Glu Thr Ser Val Glu Ile Arg Ile
                320                 325                 330
Trp Gly Gly Ile Lys Gln Leu Leu His Ile Leu Gln Gly Asp Arg
                335                 340                 345
Asn Phe Val Ser Asp His Ser Ser Ile Gly Ser Leu Ser Ser Ala
                350                 355                 360
Asn Ala Ala Gly Arg Ile Gln Gln Leu His Leu Ser Glu Asp Leu
                365                 370                 375
Ser Pro Arg Glu Ile Gln Glu Asn Thr Phe Ser Leu Gln Ala Ala
                380                 385                 390
Cys Cys Ala Ala Leu Thr Glu Leu Val Leu Asn Asp Thr Asn Ala
                395                 400                 405
His Gln Val Val Gln Glu Asn Gly Val Tyr Thr Ile Ala Lys Leu
                410                 415                 420
Ile Leu Pro Asn Lys Gln Lys Asn Ala Ala Lys Ser Asn Leu Leu
                425                 430                 435
Gln Cys Tyr Ala Phe Arg Ala Leu Arg Phe Leu Phe Ser Met Glu
                440                 445                 450
Arg Asn Arg Pro Leu Phe Lys Arg Leu Phe Pro Thr Asp Leu Phe
                455                 460                 465
Glu Ile Phe Ile Asp Ile Gly His Tyr Val Arg Asp Ile Ser Ala
                470                 475                 480
Tyr Glu Glu Leu Val Ser Lys Leu Asn Leu Leu Val Glu Asp Glu
                485                 490                 495
Leu Lys Gln Ile Ala Glu Asn Ile Glu Ser Ile Asn Gln Asn Lys
                500                 505                 510
Ala Pro Leu Lys Tyr Ile Gly Asn Tyr Ala Ile Leu Asp His Leu
                515                 520                 525
Gly Ser Gly Ala Phe Gly Cys Val Tyr Lys Val Arg Lys His Ser
                530                 535                 540
Gly Gln Asn Leu Leu Ala Met Lys Glu Val Asn Leu His Asn Pro
                545                 550                 555
Ala Phe Gly Lys Asp Lys Lys Asp Arg Asp Ser Ser Val Arg Asn
                560                 565                 570
Ile Val Ser Glu Leu Thr Ile Ile Lys Glu Gln Leu Tyr His Pro
                575                 580                 585
Asn Ile Val Arg Tyr Tyr Lys Thr Phe Leu Glu Asn Asp Arg Leu
                590                 595                 600
Tyr Ile Val Met Glu Leu Ile Glu Gly Ala Pro Leu Gly Glu His
                605                 610                 615
Phe Ser Ser Leu Lys Glu Lys His His His Phe Thr Glu Glu Arg
                620                 625                 630
Leu Trp Lys Ile Phe Ile Gln Leu Cys Leu Ala Leu Arg Tyr Leu
                635                 640                 645
His Lys Glu Lys Arg Ile Val His Arg Asp Leu Thr Pro Asn Asn
                650                 655                 660
Ile Met Leu Gly Asp Lys Asp Lys Val Thr Val Thr Asp Phe Gly
                665                 670                 675
Leu Ala Lys Gln Lys Gln Glu Asn Ser Lys Leu Thr Ser Val Val
                680                 685                 690
Gly Thr Ile Leu Tyr Ser Cys Pro Glu Val Leu Lys Ser Glu Pro
                695                 700                 705
Tyr Gly Glu Lys Ala Asp Val Trp Ala Val Gly Cys Ile Leu Tyr
```

```
                710                 715                 720
Gln Met Ala Thr Leu Ser Pro Pro Phe Tyr Ser Thr Asn Met Leu
                725                 730                 735
Ser Leu Ala Thr Lys Ile Val Glu Ala Val Tyr Glu Pro Val Pro
                740                 745                 750
Glu Gly Ile Tyr Ser Glu Lys Val Thr Asp Thr Ile Ser Arg Cys
                755                 760                 765
Leu Thr Pro Asp Ala Glu Ala Arg Pro Asp Ile Val Glu Val Ser
                770                 775                 780
Ser Met Ile Ser Asp Val Met Met Lys Tyr Leu Asp Asn Leu Ser
                785                 790                 795
Thr Ser Gln Leu Ser Leu Glu Lys Lys Leu Glu Arg Glu Arg Arg
                800                 805                 810
Arg Thr Gln Arg Tyr Phe Met Glu Ala Asn Arg Asn Thr Val Thr
                815                 820                 825
Cys His His Glu Leu Ala Val Leu Ser His Glu Thr Phe Glu Lys
                830                 835                 840
Ala Ser Leu Ser Ser Ser Ser Ser Gly Ala Ala Ser Leu Lys Ser
                845                 850                 855
Glu Leu Ser Glu Ser Ala Asp Leu Pro Pro Glu Gly Phe Gln Ala
                860                 865                 870
Ser Tyr Gly Lys Asp Glu Asp Arg Ala Cys Asp Glu Ile Leu Ser
                875                 880                 885
Asp Asp Asn Phe Asn Leu Glu Asn Ala Glu Lys Asp Thr Tyr Ser
                890                 895                 900
Glu Val Asp Asp Glu Leu Asp Ile Ser Asp Asn Ser Ser Ser Ser
                905                 910                 915
Ser Ser Ser Pro Leu Lys Glu Ser Thr Phe Asn Ile Leu Lys Arg
                920                 925                 930
Ser Phe Ser Ala Ser Gly Gly Glu Arg Gln Ser Gln Thr Arg Asp
                935                 940                 945
Phe Thr Gly Gly Thr Gly Ser Arg Pro Arg Pro Gly Pro Gln Met
                950                 955                 960
Gly Thr Phe Leu Trp Gln Ala Ser Ala Gly Ile Ala Val Ser Gln
                965                 970                 975
Arg Lys Val Arg Gln Ile Ser Asp Pro Ile Gln Gln Ile Leu Ile
                980                 985                 990
Gln Leu His Lys Ile Ile Tyr Ile Thr Gln Leu Pro Pro Ala Leu
                995                1000                1005
His His Asn Leu Lys Arg Arg Val Ile Glu Arg Phe Lys Lys Ser
               1010                1015                1020
Leu Phe Ser Gln Gln Ser Asn Pro Cys Asn Leu Lys Ser Glu Ile
               1025                1030                1035
Lys Lys Leu Ser Gln Gly Ser Pro Glu Pro Ile Glu Pro Asn Phe
               1040                1045                1050
Phe Thr Ala Asp Tyr His Leu Leu His Arg Ser Ser Gly Gly Asn
               1055                1060                1065
Ser Leu Ser Pro Asn Asp Pro Thr Gly Leu Pro Thr Ser Ile Glu
               1070                1075                1080
Leu Glu Glu Gly Ile Thr Tyr Glu Gln Met Gln Thr Val Ile Glu
               1085                1090                1095
Glu Val Leu Glu Glu Ser Gly Tyr Tyr Asn Phe Thr Ser Asn Arg
               1100                1105                1110
Tyr His Ser Tyr Pro Trp Gly Thr Lys Asn His Pro Thr Lys Arg
               1115                1120                1125
```

<210> 23
<211> 888
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 7505222CD1

<400> 23

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Met Gln Ile Val Gly Ser Pro Gly Pro Gly Ala Ala Trp Pro Val
  1               5                  10                  15
Lys Arg Val Val Phe Pro Asn Gly Glu Gln Phe Leu Leu Ser Val
             20                  25                  30
Ala Thr Lys Lys Val Ile Cys Leu Cys Leu Gly Lys Ala Gly Arg
             35                  40                  45
Lys Val Leu Ala Lys Lys Leu Ser Pro Leu Glu Thr Met Asp Lys
             50                  55                  60
Tyr Asp Val Ile Lys Ala Ile Gly Gln Gly Ala Phe Gly Lys Ala
             65                  70                  75
Tyr Leu Ala Lys Gly Lys Ser Asp Ser Lys His Cys Val Ile Lys
             80                  85                  90
Glu Ile Asn Phe Glu Lys Met Pro Ile Gln Glu Lys Glu Ala Ser
             95                 100                 105
Lys Lys Glu Val Ile Leu Leu Glu Lys Met Lys His Pro Asn Ile
            110                 115                 120
Val Ala Phe Phe Asn Ser Phe Gln Glu Asn Gly Arg Leu Phe Ile
            125                 130                 135
Val Met Glu Tyr Cys Asp Gly Gly Asp Leu Met Lys Arg Ile Asn
            140                 145                 150
Arg Gln Arg Gly Val Leu Phe Ser Glu Asp Gln Ile Leu Gly Trp
            155                 160                 165
Phe Val Gln Ile Ser Leu Gly Leu Lys His Ile His Asp Arg Lys
            170                 175                 180
Ile Leu His Arg Asp Ile Lys Ala Gln Asn Ile Phe Leu Ser Lys
            185                 190                 195
Asn Gly Met Val Ala Lys Leu Gly Asp Phe Gly Ile Ala Arg Val
            200                 205                 210
Leu Asn Asn Ser Met Glu Leu Ala Arg Thr Cys Ile Gly Thr Pro
            215                 220                 225
Tyr Tyr Leu Ser Pro Glu Ile Cys Gln Asn Lys Pro Tyr Asn Asn
            230                 235                 240
Lys Thr Asp Ile Trp Ser Leu Gly Cys Val Leu Tyr Glu Leu Cys
            245                 250                 255
Thr Leu Lys His Pro Phe Glu Gly Asn Asn Leu Gln Gln Leu Val
            260                 265                 270
Leu Lys Ile Cys Gln Ala His Phe Ala Pro Ile Ser Pro Gly Phe
            275                 280                 285
Ser Arg Glu Leu His Ser Leu Ile Ser Gln Leu Phe Gln Val Ser
            290                 295                 300
Pro Arg Asp Arg Pro Ser Ile Asn Ser Ile Leu Lys Arg Pro Phe
            305                 310                 315
Leu Glu Asn Leu Ile Pro Lys Tyr Leu Thr Pro Glu Val Ile Gln
            320                 325                 330
Glu Glu Phe Ser His Met Leu Ile Cys Arg Ala Gly Ala Pro Ala
            335                 340                 345
Ser Arg His Ala Gly Lys Val Val Gln Lys Cys Lys Ile Gln Lys
            350                 355                 360
Val Arg Phe Gln Gly Lys Cys Pro Pro Arg Ser Arg Ile Ser Val
            365                 370                 375
Pro Ile Lys Arg Asn Ala Ile Leu His Arg Asn Glu Trp Arg Pro
            380                 385                 390
Pro Ala Gly Ala Gln Lys Ala Arg Ser Ile Lys Met Ile Glu Arg
            395                 400                 405
Pro Lys Ile Ala Ala Val Cys Gly His Tyr Asp Tyr Tyr Tyr Ala
            410                 415                 420
Gln Leu Asp Met Leu Arg Arg Arg Ala His Lys Pro Ser Tyr His
            425                 430                 435
Pro Ile Pro Gln Glu Asn Thr Gly Val Glu Asp Tyr Gly Gln Glu
            440                 445                 450
Thr Arg His Gly Pro Ser Pro Ser Gln Trp Pro Ala Glu Tyr Leu
```

```
                455                 460                 465
Gln Arg Lys Phe Glu Ala Gln Gln Tyr Lys Leu Lys Val Glu Lys
                470                 475                 480
Gln Leu Gly Leu Arg Pro Ser Ser Ala Glu Pro Asn Tyr Asn Gln
                485                 490                 495
Arg Gln Glu Leu Arg Ser Asn Gly Glu Glu Pro Arg Phe Gln Glu
                500                 505                 510
Leu Pro Phe Arg Lys Asn Glu Met Lys Glu Gln Glu Tyr Trp Lys
                515                 520                 525
Gln Leu Glu Glu Ile Arg Gln Gln Tyr His Asn Asp Met Lys Glu
                530                 535                 540
Ile Arg Lys Lys Met Gly Arg Glu Pro Glu Glu Asn Ser Lys Ile
                545                 550                 555
Ser His Lys Thr Tyr Leu Val Lys Lys Ser Asn Leu Pro Val His
                560                 565                 570
Gln Asp Ala Ser Glu Gly Glu Ala Pro Val Gln Asp Ile Glu Lys
                575                 580                 585
Asp Leu Lys Gln Met Arg Leu Gln Asn Thr Lys Glu Ser Lys Asn
                590                 595                 600
Pro Glu Gln Lys Tyr Lys Ala Lys Gly Val Lys Phe Glu Ile Asn
                605                 610                 615
Leu Asp Lys Cys Ile Ser Asp Glu Asn Ile Leu Gln Glu Glu Glu
                620                 625                 630
Ala Met Asp Ile Pro Asn Glu Thr Leu Thr Phe Glu Asp Gly Met
                635                 640                 645
Lys Phe Lys Glu Tyr Glu Cys Val Lys Glu His Gly Asp Tyr Thr
                650                 655                 660
Asp Lys Ala Phe Glu Lys Leu His Cys Pro Glu Ala Gly Phe Ser
                665                 670                 675
Thr Gln Thr Val Ala Ala Val Gly Asn Arg Arg Gln Trp Asp Gly
                680                 685                 690
Gly Ala Pro Gln Thr Leu Leu Gln Met Met Ala Val Ala Asp Ile
                695                 700                 705
Thr Ser Thr Cys Pro Thr Gly Pro Asp Asn Gly Gln Val Ile Val
                710                 715                 720
Ile Glu Gly Ile Pro Gly Asn Arg Lys Gln Trp Arg His Glu Ala
                725                 730                 735
Pro Gly Thr Leu Met Ser Val Leu Ala Ala Ala His Leu Thr Ser
                740                 745                 750
Ser Ser Phe Ser Ala Asp Glu Glu Phe Ala Met Gly Thr Leu Lys
                755                 760                 765
Gln Trp Leu Pro Lys Glu Glu Asp Glu Gly Lys Val Glu Met Val
                770                 775                 780
Ser Gly Ile Glu Val Asp Glu Glu Gln Leu Glu Pro Arg Ser Asp
                785                 790                 795
Asp Asp Asp Thr Asn Phe Glu Glu Ser Glu Asp Glu Leu Arg Asp
                800                 805                 810
Glu Val Val Glu Tyr Leu Glu Lys Leu Ala Thr Phe Lys Gly Glu
                815                 820                 825
Glu Lys Thr Glu Glu Ala Ser Ser Thr Ser Lys Asp Ser Arg Lys
                830                 835                 840
Ser Arg Glu Arg Glu Gly Ile Ser Met Gln Lys Ser Glu Glu Leu
                845                 850                 855
Arg Glu Gly Leu Glu Asn Ile Ser Thr Thr Ser Asn Asp His Ile
                860                 865                 870
Cys Ile Thr Asp Glu Asp Gln Gly Thr Ser Thr Thr Ser Gln Asn
                875                 880                 885
Ile Gln Val
```

<210> 24
<211> 487
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524408CD1

<400> 24
Met Gly Arg Ile Gly Ile Ser Cys Leu Phe Pro Ala Ser Trp His
1 5 10 15
Phe Ser Ile Ser Pro Val Gly Cys Pro Arg Ile Leu Asn Thr Asn
20 25 30
Leu Arg Gln Ile Met Val Ile Ser Val Leu Ala Ala Ala Val Ser
35 40 45
Leu Leu Tyr Phe Ser Val Val Ile Ile Arg Asn Lys Tyr Gly Arg
50 55 60
Leu Thr Arg Asp Lys Lys Phe Gln Arg Tyr Leu Ala Arg Val Thr
65 70 75
Asp Ile Glu Ala Thr Asp Thr Asn Asn Pro Asn Val Asn Tyr Gly
80 85 90
Ile Val Val Asp Cys Gly Ser Ser Gly Ser Arg Val Phe Val Tyr
95 100 105
Cys Trp Pro Arg His Asn Gly Asn Pro His Asp Leu Leu Asp Ile
110 115 120
Arg Gln Met Arg Asp Lys Asn Arg Lys Pro Val Val Met Lys Ile
125 130 135
Lys Pro Gly Ile Ser Glu Phe Ala Thr Ser Pro Glu Lys Val Ser
140 145 150
Asp Tyr Ile Ser Pro Leu Leu Asn Phe Ala Ala Glu His Val Pro
155 160 165
Arg Ala Lys His Lys Glu Thr Pro Leu Tyr Ile Leu Cys Thr Ala
170 175 180
Gly Met Arg Ile Leu Pro Glu Ser Gln Gln Lys Ala Ile Leu Glu
185 190 195
Asp Leu Leu Thr Asp Ile Pro Val His Phe Asp Phe Leu Phe Ser
200 205 210
Asp Ser His Ala Glu Val Ile Ser Gly Lys Gln Glu Gly Val Tyr
215 220 225
Ala Trp Ile Gly Ile Asn Phe Val Leu Gly Arg Phe Glu His Ile
230 235 240
Glu Asp Asp Asp Glu Ala Val Val Glu Val Asn Ile Pro Gly Ser
245 250 255
Val Ser Ser Glu Ala Ile Val Arg Lys Arg Thr Ala Gly Ile Leu
260 265 270
Asp Met Gly Gly Val Leu Thr Gln Ile Ala Tyr Glu Val Pro Lys
275 280 285
Thr Ala Ser Phe Ala Ser Ser Gln Gln Glu Glu Val Ala Lys Asn
290 295 300
Leu Leu Ala Glu Phe Asn Leu Gly Cys Asp Val His Gln Thr Glu
305 310 315
His Val Tyr Arg Val Tyr Val Ala Thr Phe Phe Gly Phe Gly Gly
320 325 330
Asn Ala Ala Arg Gln Arg Tyr Glu Asp Arg Ile Phe Ala Asn Thr
335 340 345
Ile Gln Lys Asn Arg Leu Leu Gly Lys Gln Thr Gly Leu Thr Pro
350 355 360
Asp Met Pro Tyr Leu Asp Pro Cys Leu Pro Leu Asp Ile Lys Asp
365 370 375
Glu Ile Gln Gln Asn Gly Gln Thr Ile Tyr Leu Arg Gly Thr Gly
380 385 390
Asp Phe Asp Leu Cys Arg Glu Thr Ile Gln Pro Phe Met Asn Lys
395 400 405
Thr Asn Glu Thr Gln Thr Ser Leu Asn Gly Val Tyr Gln Pro Pro
410 415 420
Ile His Phe Gln Asn Ser Glu Phe Tyr Gly Phe Ser Glu Phe Tyr
425 430 435
Tyr Cys Thr Glu Asp Val Leu Arg Met Gly Gly Asp Tyr Asn Ala

```
                440                 445                 450
Ala Lys Phe Thr Lys Ala Ala Lys Asp Tyr Cys Ala Thr Lys Trp
                455                 460                 465
Ser Ile Leu Arg Glu Arg Phe Asp Arg Gly Leu Tyr Ala Ser His
                470                 475                 480
Ala Asp Leu His Arg Leu Lys
                485
```

<210> 25
<211> 1309
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526163CD1

<400> 25

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Met Asp Glu Ser Ser Leu Leu Arg Arg Arg Gly Leu Gln Lys Glu
  1               5                  10                  15
Leu Ser Leu Pro Arg Arg Gly Arg Gly Cys Arg Ser Gly Asn Arg
                20                  25                  30
Lys Ser Leu Val Val Gly Thr Pro Ser Pro Thr Leu Ser Arg Pro
                35                  40                  45
Leu Ser Pro Leu Ser Val Pro Thr Ala Gly Ser Ser Pro Leu Asp
                50                  55                  60
Ser Pro Arg Asn Phe Ser Ala Ala Ser Ala Leu Asn Phe Pro Phe
                65                  70                  75
Ala Arg Arg Ala Asp Gly Arg Arg Trp Ser Leu Ala Ser Leu Pro
                80                  85                  90
Ser Ser Gly Tyr Gly Thr Asn Thr Pro Ser Ser Thr Leu Ser Ser
                95                 100                 105
Ser Ser Ser Ser Arg Glu Arg Leu His Gln Leu Pro Phe Gln Pro
               110                 115                 120
Thr Pro Asp Glu Leu His Phe Leu Ser Lys His Phe Arg Ser Ser
               125                 130                 135
Glu Asn Val Leu Asp Glu Glu Gly Gly Arg Ser Pro Arg Leu Arg
               140                 145                 150
Pro Arg Ser Arg Ser Leu Ser Pro Gly Arg Ala Thr Gly Thr Phe
               155                 160                 165
Asp Asn Glu Ile Val Met Met Asn His Val Tyr Arg Glu Arg Phe
               170                 175                 180
Pro Lys Ala Thr Ala Gln Met Glu Gly Arg Leu Gln Glu Phe Leu
               185                 190                 195
Thr Ala Tyr Ala Pro Gly Ala Arg Leu Ala Leu Ala Asp Gly Val
               200                 205                 210
Leu Gly Phe Ile His His Gln Ile Val Glu Leu Ala Arg Asp Cys
               215                 220                 225
Leu Ala Lys Ser Gly Glu Asn Leu Val Thr Ser Arg Tyr Phe Leu
               230                 235                 240
Glu Met Gln Glu Lys Leu Glu Arg Leu Leu Gln Asp Ala His Glu
               245                 250                 255
Arg Ser Asp Ser Glu Glu Val Ser Phe Ile Val Gln Leu Val Arg
               260                 265                 270
Lys Leu Leu Ile Ile Ile Ser Arg Pro Ala Arg Leu Leu Glu Cys
               275                 280                 285
Leu Glu Phe Asp Pro Glu Glu Phe Tyr His Leu Leu Glu Ala Ala
               290                 295                 300
Glu Gly His Ala Arg Glu Gly Gln Gly Ile Lys Thr Asp Leu Pro
               305                 310                 315
Gln Tyr Ile Ile Gly Gln Leu Gly Leu Ala Lys Asp Pro Leu Glu
               320                 325                 330
Glu Met Val Pro Leu Ser His Leu Glu Glu Glu Gln Pro Pro Ala
               335                 340                 345
```

```
Pro Glu Ser Pro Glu Ser Arg Ala Leu Val Gly Gln Ser Arg Arg
                350                 355                 360
Lys Pro Cys Glu Ser Asp Phe Glu Thr Ile Lys Leu Ile Ser Asn
                365                 370                 375
Gly Ala Tyr Gly Ala Val Tyr Leu Val Arg His Arg Asp Thr Arg
                380                 385                 390
Gln Arg Phe Ala Ile Lys Lys Ile Asn Lys Gln Asn Leu Ile Leu
                395                 400                 405
Arg Asn Gln Val Gln Gln Val Phe Val Glu Arg Asp Ile Leu Thr
                410                 415                 420
Phe Ala Glu Asn Pro Phe Val Val Ser Met Phe Cys Ser Phe Glu
                425                 430                 435
Thr Arg Arg His Leu Cys Met Val Met Glu Tyr Val Glu Gly Gly
                440                 445                 450
Asp Cys Ala Thr Leu Leu Lys Asn Met Gly Pro Leu Pro Val Asp
                455                 460                 465
Met Ala Arg Leu Tyr Phe Ala Glu Thr Val Leu Ala Leu Glu Tyr
                470                 475                 480
Leu His Asn Tyr Gly Ile Val His Arg Asp Leu Lys Pro Asp Asn
                485                 490                 495
Leu Leu Ile Thr Ser Leu Gly His Ile Lys Leu Thr Asp Phe Gly
                500                 505                 510
Leu Ser Lys Ile Gly Leu Met Ser Met Ala Thr Asn Leu Tyr Glu
                515                 520                 525
Gly His Ile Glu Lys Asp Ala Arg Glu Phe Ile Asp Lys Gln Val
                530                 535                 540
Cys Gly Thr Pro Glu Tyr Ile Ala Pro Glu Val Ile Phe Arg Gln
                545                 550                 555
Gly Tyr Gly Lys Pro Val Asp Trp Trp Ala Met Gly Val Val Leu
                560                 565                 570
Tyr Glu Phe Leu Val Gly Cys Val Pro Phe Phe Gly Asp Thr Pro
                575                 580                 585
Glu Glu Leu Phe Gly Gln Val Val Ser Asp Glu Ile Met Trp Pro
                590                 595                 600
Glu Gly Asp Glu Ala Leu Pro Ala Asp Ala Gln Asp Leu Ile Thr
                605                 610                 615
Arg Leu Leu Arg Gln Ser Pro Leu Asp Arg Leu Gly Thr Gly Gly
                620                 625                 630
Thr His Glu Val Lys Gln His Pro Phe Phe Leu Ala Leu Asp Trp
                635                 640                 645
Ala Gly Leu Leu Arg His Lys Ala Glu Phe Val Pro Gln Leu Glu
                650                 655                 660
Ala Glu Asp Asp Thr Ser Tyr Phe Asp Thr Arg Ser Glu Arg Tyr
                665                 670                 675
Arg His Leu Gly Ser Glu Asp Asp Glu Thr Asn Asp Glu Glu Ser
                680                 685                 690
Ser Thr Glu Ile Pro Gln Phe Ser Ser Cys Ser His Arg Phe Ser
                695                 700                 705
Lys Val Tyr Ser Ser Ser Glu Phe Leu Ala Val Gln Pro Thr Pro
                710                 715                 720
Thr Phe Ala Glu Arg Ser Phe Ser Glu Asp Arg Glu Glu Gly Trp
                725                 730                 735
Glu Arg Ser Glu Val Asp Tyr Gly Arg Arg Leu Ser Ala Asp Ile
                740                 745                 750
Arg Leu Arg Ser Trp Thr Ser Ser Gly Ser Ser Cys Gln Ser Ser
                755                 760                 765
Ser Ser Gln Pro Glu Arg Gly Pro Ser Pro Ser Leu Leu Asn Thr
                770                 775                 780
Ile Ser Leu Asp Thr Met Pro Lys Phe Ala Phe Ser Ser Glu Asp
                785                 790                 795
Glu Gly Val Gly Pro Gly Pro Ala Gly Pro Lys Arg Pro Val Phe
                800                 805                 810
Ile Leu Gly Glu Pro Asp Pro Pro Pro Ala Ala Thr Pro Val Met
                815                 820                 825
```

```
Pro Lys Pro Ser Ser Leu Ser Ala Asp Thr Ala Ala Leu Ser His
                830                 835                 840
Ala Arg Leu Arg Ser Asn Ser Ile Gly Ala Arg His Ser Thr Pro
                845                 850                 855
Arg Pro Leu Asp Ala Gly Arg Gly Arg Arg Leu Gly Gly Pro Arg
                860                 865                 870
Asp Pro Ala Pro Glu Lys Ser Arg Ala Ser Ser Ser Gly Gly Ser
                875                 880                 885
Gly Gly Gly Ser Gly Gly Arg Val Pro Lys Ser Ala Ser Val Ser
                890                 895                 900
Ala Leu Ser Leu Ile Ile Thr Ala Asp Asp Gly Ser Gly Gly Pro
                905                 910                 915
Leu Met Ser Pro Leu Ser Pro Arg Ser Leu Ser Ser Asn Pro Ser
                920                 925                 930
Ser Arg Asp Ser Ser Pro Ser Arg Asp Pro Ser Pro Val Cys Gly
                935                 940                 945
Ser Leu Arg Pro Pro Ile Val Ile His Ser Ser Gly Lys Lys Tyr
                950                 955                 960
Gly Phe Ser Leu Arg Ala Ile Arg Val Tyr Met Gly Asp Ser Asp
                965                 970                 975
Val Tyr Thr Val His His Val Val Trp Ser Val Glu Asp Gly Ser
                980                 985                 990
Pro Ala Gln Glu Ala Gly Leu Arg Ala Gly Asp Leu Ile Thr His
                995                1000                1005
Ile Asn Gly Glu Ser Val Leu Gly Leu Val His Met Asp Val Val
               1010                1015                1020
Glu Leu Leu Leu Lys Ser Gly Asn Lys Ile Ser Leu Arg Thr Thr
               1025                1030                1035
Ala Leu Glu Asn Thr Ser Ile Lys Val Gly Pro Ala Arg Lys Asn
               1040                1045                1050
Val Ala Lys Gly Arg Met Ala Arg Arg Ser Lys Arg Ser Arg Arg
               1055                1060                1065
Arg Glu Thr Gln Asp Arg Arg Lys Ser Leu Phe Lys Lys Ile Ser
               1070                1075                1080
Lys Gln Thr Ser Val Leu His Thr Ser Arg Ser Phe Ser Ser Gly
               1085                1090                1095
Leu His His Ser Leu Ser Ser Ser Glu Ser Leu Pro Gly Ser Pro
               1100                1105                1110
Thr His Ser Leu Ser Pro Ser Pro Thr Thr Pro Cys Arg Ser Pro
               1115                1120                1125
Ala Pro Asp Val Pro Ala Asp Thr Thr Ala Ser Pro Pro Ser Ala
               1130                1135                1140
Ser Pro Ser Ser Ser Ser Pro Ala Ser Pro Ala Ala Ala Gly His
               1145                1150                1155
Thr Arg Pro Ser Ser Leu His Gly Leu Ala Ala Lys Leu Gly Pro
               1160                1165                1170
Pro Arg Pro Lys Thr Gly Arg Arg Lys Ser Thr Ser Ser Ile Pro
               1175                1180                1185
Pro Ser Pro Leu Ala Cys Pro Pro Ile Ser Ala Pro Pro Pro Arg
               1190                1195                1200
Ser Pro Ser Pro Leu Pro Gly His Pro Pro Ala Pro Ala Arg Ser
               1205                1210                1215
Pro Arg Leu Arg Arg Gly Gln Ser Ala Asp Lys Leu Gly Thr Gly
               1220                1225                1230
Glu Arg Leu Asp Gly Glu Ala Gly Arg Arg Thr Arg Gly Pro Glu
               1235                1240                1245
Ala Glu Leu Val Val Met Arg Arg Leu His Leu Ser Glu Arg Arg
               1250                1255                1260
Asp Ser Phe Lys Lys Gln Glu Ala Val Gln Glu Val Ser Phe Asp
               1265                1270                1275
Glu Pro Gln Glu Glu Ala Thr Gly Leu Pro Thr Ser Val Pro Gln
               1280                1285                1290
Ile Ala Val Glu Gly Glu Glu Ala Val Pro Val Ala Leu Gly Pro
               1295                1300                1305
```

Thr Gly Arg Asp

<210> 26
<211> 1331
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526158CD1

<400> 26
Met Lys Ser Arg Arg Asp Lys Leu His Ile Pro Ala Leu Thr Leu
1 5 10 15
Asp Leu Ser Pro Ser Ser Gln Ser Pro Ser Leu Leu Gly Pro Ser
20 25 30
Ser Pro Cys Ser Pro Cys Ser Pro Ser Leu Gly Leu His Pro Trp
35 40 45
Ser Cys Arg Ser Gly Asn Arg Lys Ser Leu Val Val Gly Thr Pro
50 55 60
Ser Pro Thr Leu Ser Arg Pro Leu Ser Pro Leu Ser Val Pro Thr
65 70 75
Ala Gly Ser Ser Pro Leu Asp Ser Pro Arg Asn Phe Ser Ala Ala
80 85 90
Ser Ala Leu Asn Phe Pro Phe Ala Arg Arg Ala Asp Gly Arg Arg
95 100 105
Trp Ser Leu Ala Ser Leu Pro Ser Ser Gly Tyr Gly Thr Asn Thr
110 115 120
Pro Ser Ser Thr Leu Ser Ser Ser Ser Ser Ser Arg Glu Arg Leu
125 130 135
His Gln Leu Pro Phe Gln Pro Thr Pro Asp Glu Leu His Phe Leu
140 145 150
Ser Lys His Phe Arg Ser Ser Glu Asn Val Leu Asp Glu Glu Gly
155 160 165
Gly Arg Ser Pro Arg Leu Arg Pro Arg Ser Arg Ser Leu Ser Pro
170 175 180
Gly Arg Ala Thr Gly Thr Phe Asp Asn Glu Ile Val Met Met Asn
185 190 195
His Val Tyr Arg Glu Arg Phe Pro Lys Ala Thr Ala Gln Met Glu
200 205 210
Gly Arg Leu Gln Glu Phe Leu Thr Ala Tyr Ala Pro Gly Ala Arg
215 220 225
Leu Ala Leu Ala Asp Gly Val Leu Gly Phe Ile His His Gln Ile
230 235 240
Val Glu Leu Ala Arg Asp Cys Leu Ala Lys Ser Gly Glu Asn Leu
245 250 255
Val Thr Ser Arg Tyr Phe Leu Glu Met Gln Glu Lys Leu Glu Arg
260 265 270
Leu Leu Gln Asp Ala His Glu Arg Ser Asp Ser Glu Glu Val Ser
275 280 285
Phe Ile Val Gln Leu Val Arg Lys Leu Leu Ile Ile Ile Ser Arg
290 295 300
Pro Ala Arg Leu Leu Glu Cys Leu Glu Phe Asp Pro Glu Glu Phe
305 310 315
Tyr His Leu Leu Glu Ala Ala Glu Gly His Ala Arg Glu Gly Gln
320 325 330
Gly Ile Lys Thr Asp Leu Pro Gln Tyr Ile Ile Gly Gln Leu Gly
335 340 345
Leu Ala Lys Asp Pro Leu Glu Glu Met Val Pro Leu Ser His Leu
350 355 360
Glu Glu Glu Gln Pro Pro Ala Pro Glu Ser Pro Glu Ser Arg Ala
365 370 375
Leu Val Gly Gln Ser Arg Arg Lys Pro Cys Glu Ser Asp Phe Glu

```
                380                 385                 390
Thr Ile Lys Leu Ile Ser Asn Gly Ala Tyr Gly Ala Val Tyr Leu
                395                 400                 405
Val Arg His Arg Asp Thr Arg Gln Arg Phe Ala Ile Lys Lys Ile
                410                 415                 420
Asn Lys Gln Asn Leu Ile Leu Arg Asn Gln Ile Gln Gln Val Phe
                425                 430                 435
Val Glu Arg Asp Ile Leu Thr Phe Ala Glu Asn Pro Phe Val Val
                440                 445                 450
Ser Met Phe Cys Ser Phe Glu Thr Arg Arg His Leu Cys Met Val
                455                 460                 465
Met Glu Tyr Val Glu Gly Gly Asp Cys Ala Thr Leu Leu Lys Asn
                470                 475                 480
Met Gly Pro Leu Pro Val Asp Met Ala Arg Leu Tyr Phe Ala Glu
                485                 490                 495
Thr Val Leu Ala Leu Glu Tyr Leu His Asn Tyr Gly Ile Val His
                500                 505                 510
Arg Asp Leu Lys Pro Asp Asn Leu Leu Ile Thr Ser Leu Gly His
                515                 520                 525
Ile Lys Leu Thr Asp Phe Gly Leu Ser Lys Ile Gly Leu Met Ser
                530                 535                 540
Met Ala Thr Asn Leu Tyr Glu Gly His Ile Glu Lys Asp Ala Arg
                545                 550                 555
Glu Phe Ile Asp Lys Gln Val Cys Gly Thr Pro Glu Tyr Ile Ala
                560                 565                 570
Pro Glu Val Ile Phe Arg Gln Gly Tyr Gly Lys Pro Val Asp Trp
                575                 580                 585
Trp Ala Met Gly Val Val Leu Tyr Glu Phe Leu Val Gly Cys Val
                590                 595                 600
Pro Phe Phe Gly Asp Thr Pro Glu Glu Leu Phe Gly Gln Val Val
                605                 610                 615
Ser Asp Glu Ile Met Trp Pro Glu Gly Asp Glu Ala Leu Pro Ala
                620                 625                 630
Asp Ala Gln Asp Leu Ile Thr Arg Leu Leu Arg Gln Ser Pro Leu
                635                 640                 645
Asp Arg Leu Gly Thr Gly Gly Thr His Glu Val Lys Gln His Pro
                650                 655                 660
Phe Phe Leu Ala Leu Asp Trp Ala Gly Leu Leu Arg His Lys Ala
                665                 670                 675
Glu Phe Val Pro Gln Leu Glu Ala Glu Asp Asp Thr Ser Tyr Phe
                680                 685                 690
Asp Thr Arg Ser Glu Arg Tyr Arg His Leu Gly Ser Glu Asp Asp
                695                 700                 705
Glu Thr Asn Asp Glu Glu Ser Ser Thr Glu Ile Pro Gln Phe Ser
                710                 715                 720
Ser Cys Ser His Arg Phe Ser Lys Val Tyr Ser Ser Ser Glu Phe
                725                 730                 735
Leu Ala Val Gln Pro Thr Pro Thr Phe Ala Glu Arg Ser Phe Ser
                740                 745                 750
Glu Asp Arg Glu Glu Gly Trp Glu Arg Ser Glu Val Asp Tyr Gly
                755                 760                 765
Arg Arg Leu Ser Ala Asp Ile Arg Leu Arg Ser Trp Thr Ser Ser
                770                 775                 780
Gly Ser Ser Cys Gln Ser Ser Ser Ser Gln Pro Glu Arg Gly Pro
                785                 790                 795
Ser Pro Ser Leu Leu Asn Thr Ile Ser Leu Asp Thr Met Pro Lys
                800                 805                 810
Phe Ala Phe Ser Ser Glu Asp Glu Gly Val Gly Pro Gly Pro Ala
                815                 820                 825
Gly Pro Lys Arg Pro Val Phe Ile Leu Gly Glu Pro Asp Pro Pro
                830                 835                 840
Pro Ala Ala Thr Pro Val Met Pro Lys Pro Ser Ser Leu Ser Ala
                845                 850                 855
Asp Thr Ala Ala Leu Ser His Ala Arg Leu Arg Ser Asn Ser Ile
```

```
                860                 865                 870
Gly Ala Arg His Ser Thr Pro Arg Pro Leu Asp Ala Gly Arg Gly
                875                 880                 885
Arg Arg Leu Gly Gly Pro Arg Asp Pro Ala Pro Glu Lys Ser Arg
                890                 895                 900
Ala Ser Ser Ser Gly Gly Ser Gly Gly Gly Ser Gly Gly Arg Val
                905                 910                 915
Pro Lys Ser Ala Ser Val Ser Ala Leu Ser Leu Ile Ile Thr Ala
                920                 925                 930
Asp Asp Gly Ser Gly Gly Pro Leu Met Ser Pro Leu Ser Pro Arg
                935                 940                 945
Ser Leu Ser Ser Asn Pro Ser Ser Arg Asp Ser Ser Pro Ser Arg
                950                 955                 960
Asp Pro Ser Pro Val Cys Gly Ser Leu Arg Pro Pro Ile Val Ile
                965                 970                 975
His Ser Ser Gly Lys Lys Tyr Gly Phe Ser Leu Arg Ala Ile Arg
                980                 985                 990
Val Tyr Met Gly Asp Ser Asp Val Tyr Thr Val His His Val Val
                995                1000                1005
Trp Ser Val Glu Asp Gly Ser Pro Ala Gln Glu Ala Gly Leu Arg
               1010                1015                1020
Ala Gly Asp Leu Ile Thr His Ile Asn Gly Glu Ser Val Leu Gly
               1025                1030                1035
Leu Val His Met Asp Val Val Glu Leu Leu Leu Lys Ser Gly Asn
               1040                1045                1050
Lys Ile Ser Leu Arg Thr Thr Ala Leu Glu Asn Thr Ser Ile Lys
               1055                1060                1065
Val Gly Pro Ala Arg Lys Asn Val Ala Lys Gly Arg Met Ala Arg
               1070                1075                1080
Arg Ser Lys Arg Ser Arg Arg Arg Glu Thr Gln Asp Arg Arg Lys
               1085                1090                1095
Ser Leu Phe Lys Lys Ile Ser Lys Gln Thr Ser Val Leu His Thr
               1100                1105                1110
Ser Arg Ser Phe Ser Ser Gly Leu His His Ser Leu Ser Ser Ser
               1115                1120                1125
Glu Ser Leu Pro Gly Ser Pro Thr His Ser Leu Ser Pro Ser Pro
               1130                1135                1140
Thr Thr Pro Cys Arg Ser Pro Ala Pro Asp Val Pro Ala Asp Thr
               1145                1150                1155
Thr Ala Ser Pro Pro Ser Ala Ser Pro Ser Ser Ser Ser Pro Ala
               1160                1165                1170
Ser Pro Ala Ala Ala Gly His Thr Arg Pro Ser Ser Leu His Gly
               1175                1180                1185
Leu Ala Ala Lys Leu Gly Pro Pro Arg Pro Lys Thr Gly Arg Arg
               1190                1195                1200
Lys Ser Thr Ser Ser Ile Pro Pro Ser Pro Leu Ala Cys Pro Pro
               1205                1210                1215
Ile Ser Ala Pro Pro Pro Arg Ser Pro Ser Pro Leu Pro Gly His
               1220                1225                1230
Pro Pro Ala Pro Ala Arg Ser Pro Arg Leu Arg Arg Gly Gln Ser
               1235                1240                1245
Ala Asp Lys Leu Gly Thr Gly Glu Arg Leu Asp Gly Glu Ala Gly
               1250                1255                1260
Arg Arg Thr Arg Gly Pro Glu Ala Glu Leu Val Val Met Arg Arg
               1265                1270                1275
Leu His Leu Ser Glu Arg Arg Asp Ser Phe Lys Lys Gln Glu Ala
               1280                1285                1290
Val Gln Glu Val Ser Phe Asp Glu Pro Gln Glu Glu Ala Thr Gly
               1295                1300                1305
Leu Pro Thr Ser Val Pro Gln Ile Ala Val Glu Gly Glu Glu Ala
               1310                1315                1320
Val Pro Val Ala Leu Gly Pro Thr Gly Arg Asp
               1325                1330
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<210> 27
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7519807CD1

<400> 27
Met Tyr Ser Leu Asn Gln Glu Ile Lys Ala Phe Ser Arg Asn Asn
1 5 10 15
Pro Arg Lys Gln Cys Thr Arg Val Thr Thr Leu Thr Gly Lys Lys
20 25 30
Ile Ile Glu Thr Trp Lys Asp Ala Arg Ile His Val Val Glu Glu
35 40 45
Val Glu Pro Ser Ser Gly Gly Gly Cys Gly Tyr Val Gln Asp Leu
50 55 60
Ser Ser Asp Gln Gln Val Gly Val Ile Lys Pro Trp Leu Leu Leu
65 70 75
Gly Asp Ser Tyr Ser
80

<210> 28
<211> 495
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526180CD1

<400> 28
Met Cys Gln Ala Pro Cys Trp Arg Ala Gly Gly Ser Gly Leu Gly
1 5 10 15
Arg Cys Ser Leu Cys Arg Ser Cys Ser Leu Ala Arg Phe Pro Arg
20 25 30
Leu Pro Ser Phe Pro Pro Pro Gly Arg Leu Arg Ala Gly Val Cys
35 40 45
Ala Arg Glu Gly Glu Gly Val Gly Gly Val Gly Gly Gly Val Pro
50 55 60
Val Pro Lys Arg Pro Ala Glu Gly Gly Gly Gly Cys Glu Gly Leu
65 70 75
Arg Glu Ala Met Asp Val Glu Arg Leu Gln Glu Ala Leu Lys Asp
80 85 90
Phe Glu Lys Arg Gly Lys Lys Glu Val Cys Pro Val Leu Asp Gln
95 100 105
Phe Leu Cys His Val Ala Lys Thr Gly Glu Thr Met Ile Gln Trp
110 115 120
Ser Gln Phe Lys Gly Tyr Phe Ile Phe Lys Leu Glu Lys Val Met
125 130 135
Asp Asp Phe Arg Thr Ser Ala Pro Glu Pro Arg Gly Pro Pro Asn
140 145 150
Pro Asn Val Glu Tyr Ile Pro Phe Asp Glu Met Lys Glu Arg Ile
155 160 165
Leu Lys Ile Val Thr Gly Phe Asn Gly Ile Pro Phe Thr Ile Gln
170 175 180
Arg Leu Cys Glu Leu Leu Thr Asp Pro Arg Arg Asn Tyr Thr Gly
185 190 195
Thr Asp Lys Phe Leu Arg Gly Val Glu Lys Asn Val Met Val Val
200 205 210
Ser Cys Val Tyr Pro Ser Ser Glu Lys Asn Asn Ser Asn Ser Leu
215 220 225
Asn Arg Met Asn Gly Val Met Phe Pro Gly Asn Ser Pro Ser Tyr

```
                230                 235                 240
Thr Glu Arg Ser Asn Ile Asn Gly Pro Gly Thr Pro Arg Pro Leu
                245                 250                 255
Asn Arg Pro Lys Val Ser Leu Ser Ala Pro Met Thr Thr Asn Gly
                260                 265                 270
Leu Pro Glu Ser Thr Asp Ser Lys Glu Ala Asn Leu Gln Gln Asn
                275                 280                 285
Glu Glu Lys Asn His Ser Asp Ser Ser Thr Ser Glu Ser Glu Val
                290                 295                 300
Ser Ser Val Ser Pro Leu Lys Asn Lys His Pro Asp Glu Asp Ala
                305                 310                 315
Val Glu Ala Glu Gly His Glu Val Lys Arg Leu Arg Phe Asp Lys
                320                 325                 330
Glu Gly Glu Val Arg Glu Thr Ala Ser Gln Thr Thr Ser Ser Glu
                335                 340                 345
Ile Ser Ser Val Met Val Gly Glu Thr Glu Ala Ser Ser Ser Ser
                350                 355                 360
Gln Asp Lys Asp Lys Asp Ser Arg Cys Thr Arg Gln His Cys Thr
                365                 370                 375
Glu Glu Asp Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu Ser Phe
                380                 385                 390
Met Thr Ser Arg Glu Met Ile Pro Glu Arg Lys Asn Gln Glu Lys
                395                 400                 405
Glu Ser Asp Asp Ala Leu Thr Val Asn Glu Glu Thr Ser Glu Glu
                410                 415                 420
Asn Asn Gln Met Glu Glu Ser Asp Val Ser Gln Ala Glu Lys Asp
                425                 430                 435
Leu Leu His Ser Glu Gly Ser Glu Asn Glu Gly Pro Val Ser Ser
                440                 445                 450
Ser Ser Ser Asp Cys Arg Glu Thr Glu Glu Leu Val Gly Ser Asn
                455                 460                 465
Ser Ser Lys Thr Gly Glu Ile Leu Ser Glu Ser Ser Met Glu Asn
                470                 475                 480
Asp Asp Glu Ala Thr Glu Val Thr Asp Glu Pro Met Glu Gln Asp
                485                 490                 495
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<210> 29
<211> 157
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526185CD1

<400> 29

```
Met Ala His Ser Pro Val Gln Ser Gly Leu Pro Gly Met Gln Asn
  1                 5                  10                  15
Leu Lys Ala Asp Pro Glu Glu Leu Phe Thr Lys Leu Glu Lys Ile
                 20                  25                  30
Gly Lys Gly Ser Phe Gly Glu Val Phe Lys Gly Ile Asp Asn Arg
                 35                  40                  45
Thr Gln Lys Val Val Ala Ile Lys Ile Ile Asp Leu Glu Glu Ala
                 50                  55                  60
Glu Asp Glu Ile Glu Asp Ile Gln Gln Glu Ile Thr Val Leu Ser
                 65                  70                  75
Gln Cys Asp Ser Pro Tyr Val Thr Lys Tyr Tyr Gly Ser Tyr Leu
                 80                  85                  90
Lys Asp Thr Lys Leu Trp Ile Ile Met Glu Tyr Leu Gly Gly Gly
                 95                 100                 105
Ser Ala Leu Asp Leu Leu Glu Pro Gly Pro Leu Asp Glu Thr Gln
                110                 115                 120
Ile Ala Thr Ile Leu Arg Glu Ile Leu Lys Gly Leu Asp Tyr Leu
```

125 130 135
His Ser Glu Lys Lys Ile His Arg Asp Ile Lys Gly Arg His Leu
140 145 150
Val Pro Gly His Asn Ser Tyr
155

<210> 30
<211> 305
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526192CD1

<400> 30
Met Asp Phe Asp Lys Lys Gly Gly Lys Gly Glu Thr Glu Glu Gly
1 5 10 15
Arg Arg Met Ser Lys Ala Gly Gly Gly Arg Ser Ser His Gly Ile
20 25 30
Arg Ser Ser Gly Thr Ser Ser Gly Val Leu Met Val Gly Pro Asn
35 40 45
Phe Arg Val Gly Lys Lys Ile Gly Cys Gly Asn Phe Gly Glu Leu
50 55 60
Arg Leu Gly Lys Asn Leu Tyr Thr Asn Glu Tyr Val Ala Ile Lys
65 70 75
Leu Val Ser Arg Pro Leu His Pro Thr Pro Ala Asp Val Pro Pro
80 85 90
Arg Asp Phe Arg Ala Ala Thr Arg Ser Pro Gly Asp Ser Leu Leu
95 100 105
Cys Pro Gln Glu Pro Ile Lys Ser Arg Ala Pro Gln Leu His Leu
110 115 120
Glu Tyr Arg Phe Tyr Lys Gln Leu Ser Ala Thr Glu Gly Val Pro
125 130 135
Gln Val Tyr Tyr Phe Gly Pro Cys Gly Lys Tyr Asn Ala Met Val
140 145 150
Leu Glu Leu Leu Gly Pro Ile Leu Glu Asp Leu Phe Asp Leu Cys
155 160 165
Asp Arg Thr Phe Thr Leu Thr Thr Val Leu Met Ile Ala Ile Gln
170 175 180
Leu Ile Thr Arg Met Glu Tyr Val His Thr Lys Ser Leu Ile Tyr
185 190 195
Arg Asp Val Lys Pro Glu Asn Phe Leu Val Gly Arg Pro Gly Thr
200 205 210
Lys Arg Gln His Ala Ile His Ile Ile Asp Phe Gly Leu Ala Lys
215 220 225
Glu Tyr Ile Asp Pro Glu Thr Lys Lys His Ile Pro Tyr Arg Glu
230 235 240
His Lys Ser Leu Thr Gly Thr Ala Arg Tyr Met Ser Ile Asn Thr
245 250 255
His Leu Gly Lys Glu Gln Ser Arg Arg Asp Asp Leu Glu Ala Leu
260 265 270
Gly His Met Phe Met Tyr Phe Leu Arg Gly Ser Leu Pro Trp Gln
275 280 285
Gly Leu Lys Val Gly Glu Glu Ala Gly Gln Ala Gly Gly Asp Ala
290 295 300
Gly Arg Glu Gln Gly
305

<210> 31
<211> 930
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526193CD1

<400> 31
Met Lys Lys Phe Phe Asp Ser Arg Arg Glu Gln Gly Gly Ser Gly
1 5 10 15
Leu Gly Ser Gly Ser Ser Gly Gly Gly Gly Ser Thr Ser Gly Leu
20 25 30
Gly Ser Gly Tyr Ile Gly Arg Val Phe Gly Ile Gly Arg Gln Gln
35 40 45
Val Thr Val Asp Glu Val Leu Ala Glu Gly Gly Phe Ala Ile Val
50 55 60
Phe Leu Val Arg Thr Ser Asn Gly Met Lys Cys Ala Leu Lys Arg
65 70 75
Met Phe Val Asn Asn Glu His Asp Leu Gln Val Cys Lys Arg Glu
80 85 90
Ile Gln Ile Met Arg Asp Leu Ser Gly His Lys Asn Ile Val Gly
95 100 105
Tyr Ile Asp Ser Ser Ile Asn Asn Val Ser Ser Gly Asp Val Trp
110 115 120
Glu Val Leu Ile Leu Met Asp Phe Cys Arg Gly Gly Gln Val Val
125 130 135
Asn Leu Met Asn Gln Arg Leu Gln Thr Gly Phe Thr Glu Asn Glu
140 145 150
Val Leu Gln Ile Phe Cys Asp Thr Cys Glu Ala Val Ala Arg Leu
155 160 165
His Gln Cys Lys Thr Pro Ile Ile His Arg Asp Leu Lys Val Glu
170 175 180
Asn Ile Leu Leu His Asp Arg Gly His Tyr Val Leu Cys Asp Phe
185 190 195
Gly Ser Ala Thr Asn Lys Phe Gln Asn Pro Gln Thr Glu Gly Val
200 205 210
Asn Ala Val Glu Asp Glu Ile Lys Lys Tyr Thr Thr Leu Ser Tyr
215 220 225
Arg Ala Pro Glu Met Val Asn Leu Tyr Ser Gly Lys Ile Ile Thr
230 235 240
Thr Lys Ala Asp Ile Trp Ala Leu Gly Cys Leu Leu Tyr Lys Leu
245 250 255
Cys Tyr Phe Thr Leu Pro Phe Gly Glu Ser Gln Val Ala Ile Cys
260 265 270
Asp Gly Asn Phe Thr Ile Pro Asp Asn Ser Arg Tyr Ser Gln Asp
275 280 285
Met His Cys Leu Ile Arg Tyr Met Leu Glu Pro Asp Pro Asp Lys
290 295 300
Arg Pro Asp Ile Tyr Gln Val Ser Tyr Phe Ser Phe Lys Leu Leu
305 310 315
Lys Lys Glu Cys Pro Ile Pro Asn Val Gln Asn Ser Pro Ile Pro
320 325 330
Ala Lys Leu Pro Glu Pro Val Lys Ala Ser Glu Ala Ala Ala Lys
335 340 345
Lys Thr Gln Pro Lys Ala Arg Leu Thr Asp Pro Ile Pro Thr Thr
350 355 360
Glu Thr Ser Ile Ala Pro Arg Gln Arg Pro Lys Ala Gly Gln Thr
365 370 375
Gln Pro Asn Pro Gly Ile Leu Pro Ile Gln Pro Ala Leu Thr Pro
380 385 390
Arg Lys Arg Ala Thr Val Gln Pro Pro Pro Gln Ala Ala Gly Ser
395 400 405
Ser Asn Gln Pro Gly Leu Leu Ala Ser Val Pro Gln Pro Lys Pro
410 415 420
Gln Ala Pro Pro Ser Gln Pro Leu Pro Gln Thr Gln Ala Lys Gln
425 430 435
Pro Gln Ala Pro Pro Thr Pro Gln Gln Thr Pro Ser Thr Gln Ala

```
                440                 445                 450
Gln Gly Leu Pro Ala Gln Ala Gln Ala Thr Pro Gln His Gln Gln
                455                 460                 465
Gln Leu Phe Leu Lys Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro
                470                 475                 480
Ala Gln Gln Gln Pro Ala Gly Thr Phe Tyr Gln Gln Gln Gln Ala
                485                 490                 495
Gln Thr Gln Gln Phe Gln Ala Val His Pro Ala Thr Gln Gln Pro
                500                 505                 510
Ala Ile Ala Gln Phe Pro Val Val Ser Gln Gly Gly Ser Gln Gln
                515                 520                 525
Gln Leu Met Gln Asn Phe Tyr Gln Gln Gln Gln Gln Gln Gln Gln
                530                 535                 540
Gln Gln Gln Gln Gln Gln Leu Ala Thr Ala Leu His Gln Gln Gln
                545                 550                 555
Leu Met Thr Gln Gln Ala Ala Leu Gln Gln Lys Pro Thr Met Ala
                560                 565                 570
Ala Gly Gln Gln Pro Gln Pro Gln Pro Ala Ala Ala Pro Gln Pro
                575                 580                 585
Ala Pro Ala Gln Glu Pro Ala Gln Ile Gln Ala Pro Val Arg Gln
                590                 595                 600
Gln Pro Lys Val Gln Thr Thr Pro Pro Pro Ala Val Gln Gly Gln
                605                 610                 615
Lys Val Gly Ser Leu Thr Pro Pro Ser Ser Pro Lys Thr Gln Arg
                620                 625                 630
Ala Gly His Arg Arg Ile Leu Ser Asp Val Thr His Ser Ala Val
                635                 640                 645
Phe Gly Val Pro Ala Ser Lys Ser Thr Gln Leu Leu Gln Ala Ala
                650                 655                 660
Ala Ala Glu Ala Ser Leu Asn Lys Ser Lys Ser Ala Thr Thr Thr
                665                 670                 675
Pro Ser Gly Ser Pro Arg Thr Ser Gln Gln Asn Val Tyr Asn Pro
                680                 685                 690
Ser Glu Gly Ser Thr Trp Asn Pro Phe Asp Asp Asp Asn Phe Ser
                695                 700                 705
Lys Leu Thr Ala Glu Glu Leu Leu Asn Lys Asp Phe Ala Lys Leu
                710                 715                 720
Gly Glu Gly Lys His Pro Glu Lys Leu Gly Gly Ser Ala Glu Ser
                725                 730                 735
Leu Ile Pro Gly Phe Gln Ser Thr Gln Gly Asp Ala Phe Ala Thr
                740                 745                 750
Thr Ser Phe Ser Ala Gly Thr Glu Lys Leu Ile Glu Gly Leu Lys
                755                 760                 765
Ser Pro Asp Thr Ser Leu Leu Leu Pro Asp Leu Leu Pro Met Thr
                770                 775                 780
Asp Pro Phe Gly Ser Thr Ser Asp Ala Val Ile Glu Lys Ala Asp
                785                 790                 795
Val Ala Val Glu Ser Leu Ile Pro Gly Leu Glu Pro Pro Val Pro
                800                 805                 810
Gln Arg Leu Pro Ser Gln Thr Glu Ser Val Thr Ser Asn Arg Thr
                815                 820                 825
Asp Ser Leu Thr Gly Glu Asp Ser Leu Leu Asp Cys Ser Leu Leu
                830                 835                 840
Ser Asn Pro Thr Thr Asp Leu Leu Glu Glu Phe Ala Pro Thr Ala
                845                 850                 855
Ile Ser Ala Pro Val His Lys Ala Ala Glu Asp Ser Asn Leu Ile
                860                 865                 870
Ser Gly Phe Asp Val Pro Glu Gly Ser Asp Lys Val Ala Glu Asp
                875                 880                 885
Glu Phe Asp Pro Ile Pro Val Leu Ile Thr Lys Asn Pro Gln Gly
                890                 895                 900
Gly His Ser Arg Asn Ser Ser Gly Ser Ser Glu Ser Ser Leu Pro
                905                 910                 915
Asn Leu Ala Arg Ser Leu Leu Leu Val Asp Gln Leu Ile Asp Leu
```

920 925 930

<210> 32
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526196CD1

<400> 32
Met Ser Leu Leu Gln Ser Ala Leu Asp Phe Leu Ala Gly Pro Gly
1 5 10 15
Ser Leu Gly Gly Ala Ser Gly Arg Asp Gln Ser Asp Phe Val Gly
20 25 30
Gln Thr Val Glu Leu Gly Glu Leu Arg Leu Arg Val Arg Arg Val
35 40 45
Leu Ala Glu Gly Gly Phe Ala Phe Val Tyr Glu Ala Gln Asp Val
50 55 60
Gly Ser Gly Arg Glu Tyr Ala Leu Lys Arg Leu Leu Ser Asn Glu
65 70 75
Glu Glu Lys Asn Arg Ala Ile Ile Gln Glu Val Cys Phe Met Leu
80 85 90
Cys Ser Leu Gly Glu Pro Ala Gly Cys Leu Ser Val Gly Ser Gly
95 100 105
Gly His Ser His Ala Ser Ala Ser Leu Arg Thr Ala Pro
110 115

<210> 33
<211> 1355
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526198CD1

<400> 33
Met Ser Leu Leu Gln Ser Ala Leu Asp Phe Leu Ala Gly Pro Gly
1 5 10 15
Ser Leu Gly Gly Ala Ser Gly Arg Asp Gln Ser Asp Phe Val Gly
20 25 30
Gln Thr Val Glu Leu Gly Glu Leu Arg Leu Arg Val Arg Arg Val
35 40 45
Leu Ala Glu Gly Gly Phe Ala Phe Val Tyr Glu Ala Gln Asp Val
50 55 60
Gly Ser Gly Arg Glu Tyr Ala Leu Lys Arg Leu Leu Ser Asn Glu
65 70 75
Glu Glu Lys Asn Arg Ala Ile Ile Gln Glu Val Cys Phe Met Lys
80 85 90
Lys Leu Ser Gly His Pro Asn Ile Val Gln Phe Cys Ser Ala Ala
95 100 105
Ser Ile Gly Lys Glu Glu Ser Asp Thr Gly Gln Ala Glu Phe Leu
110 115 120
Leu Leu Thr Glu Leu Cys Lys Gly Gln Leu Val Glu Phe Leu Lys
125 130 135
Lys Met Glu Ser Arg Gly Pro Leu Ser Cys Asp Thr Val Leu Lys
140 145 150
Ile Phe Tyr Gln Thr Cys Arg Ala Val Gln His Met His Arg Gln
155 160 165
Lys Pro Pro Ile Ile His Arg Asp Leu Lys Val Glu Asn Leu Leu
170 175 180

```
Leu Ser Asn Gln Gly Thr Ile Lys Leu Cys Asp Phe Gly Ser Ala
                185                 190                 195
Thr Thr Ile Ser His Tyr Pro Asp Tyr Ser Trp Ser Ala Gln Arg
            200                 205                 210
Arg Ala Leu Val Glu Glu Glu Ile Thr Arg Asn Thr Thr Pro Met
        215                 220                 225
Tyr Arg Thr Pro Glu Ile Ile Asp Leu Tyr Ser Asn Phe Pro Ile
    230                 235                 240
Gly Glu Lys Gln Asp Ile Trp Ala Leu Gly Cys Ile Leu Tyr Leu
245                 250                 255
Leu Cys Phe Arg Gln His Pro Phe Glu Asp Gly Ala Lys Leu Arg
            260                 265                 270
Ile Val Asn Gly Lys Tyr Ser Ile Pro Pro His Asp Thr Gln Tyr
        275                 280                 285
Thr Val Phe His Ser Leu Ile Arg Ala Met Leu Gln Val Asn Pro
    290                 295                 300
Glu Glu Arg Leu Ser Ile Ala Glu Val Val His Gln Leu Gln Glu
305                 310                 315
Ile Ala Ala Ala Arg Asn Val Asn Pro Lys Ser Pro Ile Thr Glu
            320                 325                 330
Leu Leu Glu Gln Asn Gly Gly Tyr Gly Ser Ala Thr Leu Ser Arg
        335                 340                 345
Gly Pro Pro Pro Pro Val Gly Pro Ala Gly Ser Gly Tyr Ser Gly
    350                 355                 360
Gly Leu Ala Leu Ala Glu Tyr Asp Gln Pro Tyr Gly Gly Phe Leu
365                 370                 375
Asp Ile Leu Arg Gly Gly Thr Glu Arg Leu Phe Thr Asn Leu Lys
            380                 385                 390
Asp Thr Ser Ser Lys Val Ile Gln Ser Val Ala Asn Tyr Ala Lys
        395                 400                 405
Gly Asp Leu Asp Ile Ser Tyr Ile Thr Ser Arg Ile Ala Val Met
    410                 415                 420
Ser Phe Pro Ala Glu Gly Val Glu Ser Ala Leu Lys Asn Asn Ile
425                 430                 435
Glu Asp Val Arg Leu Phe Leu Asp Ser Lys His Pro Gly His Tyr
            440                 445                 450
Ala Val Tyr Asn Leu Ser Pro Arg Thr Tyr Arg Pro Ser Arg Phe
        455                 460                 465
His Asn Arg Val Ser Glu Cys Gly Trp Ala Ala Arg Arg Ala Pro
    470                 475                 480
His Leu His Thr Leu Tyr Asn Ile Cys Arg Asn Met His Ala Trp
485                 490                 495
Leu Arg Gln Asp His Lys Asn Val Cys Val Val His Cys Met Asp
            500                 505                 510
Gly Arg Ala Ala Ser Ala Val Ala Val Cys Ser Phe Leu Cys Phe
        515                 520                 525
Cys Arg Leu Phe Ser Thr Ala Glu Ala Ala Val Tyr Met Phe Ser
    530                 535                 540
Met Lys Arg Cys Pro Pro Gly Ile Trp Pro Ser His Lys Arg Tyr
545                 550                 555
Ile Glu Tyr Met Cys Asp Met Val Ala Glu Glu Pro Ile Thr Pro
            560                 565                 570
His Ser Lys Pro Ile Leu Val Arg Ala Val Val Met Thr Pro Val
        575                 580                 585
Pro Leu Phe Ser Lys Gln Arg Ser Gly Cys Arg Pro Phe Cys Glu
    590                 595                 600
Val Tyr Val Gly Asp Glu Arg Val Ala Ser Thr Ser Gln Glu Tyr
605                 610                 615
Asp Lys Met Arg Asp Phe Lys Ile Glu Asp Gly Ile Ala Val Ile
            620                 625                 630
Pro Leu Gly Val Thr Val Gln Gly Asp Val Leu Ile Val Ile Tyr
        635                 640                 645
His Ala Arg Ser Thr Leu Gly Gly Arg Leu Gln Ala Lys Met Ala
    650                 655                 660
```

```
Ser Met Lys Met Phe Gln Ile Gln Phe His Thr Gly Phe Val Pro
665                 670                 675
Arg Asn Ala Thr Thr Val Lys Phe Ala Lys Tyr Asp Leu Asp Ala
680                 685                 690
Cys Asp Ile Gln Glu Lys Tyr Pro Asp Leu Phe Gln Val Asn Leu
695                 700                 705
Glu Val Glu Val Glu Pro Arg Asp Arg Pro Ser Arg Glu Ala Pro
710                 715                 720
Pro Trp Glu Asn Ser Ser Met Arg Gly Leu Asn Pro Lys Ile Leu
725                 730                 735
Phe Ser Ser Arg Glu Glu Gln Gln Asp Ile Leu Ser Lys Phe Gly
740                 745                 750
Lys Pro Glu Leu Pro Arg Gln Pro Gly Ser Thr Ala Gln Tyr Asp
755                 760                 765
Ala Gly Ala Gly Ser Pro Glu Ala Glu Pro Thr Asp Ser Asp Ser
770                 775                 780
Pro Pro Ser Ser Ser Ala Asp Ala Ser Arg Phe Leu His Thr Leu
785                 790                 795
Asp Trp Gln Glu Glu Lys Glu Ala Glu Thr Gly Ala Glu Asn Ala
800                 805                 810
Ser Ser Lys Glu Ser Glu Ser Ala Leu Met Glu Asp Arg Asp Glu
815                 820                 825
Ser Glu Val Ser Asp Glu Gly Gly Ser Pro Ile Ser Ser Glu Gly
830                 835                 840
Gln Glu Pro Arg Ala Asp Pro Glu Pro Pro Gly Leu Ala Ala Gly
845                 850                 855
Leu Val Gln Gln Asp Leu Val Phe Glu Val Glu Thr Pro Ala Val
860                 865                 870
Leu Pro Glu Pro Val Pro Gln Glu Asp Gly Val Asp Leu Leu Gly
875                 880                 885
Leu His Ser Glu Val Gly Ala Gly Pro Ala Val Pro Pro Gln Ala
890                 895                 900
Cys Lys Ala Pro Ser Ser Asn Thr Asp Leu Leu Ser Cys Leu Leu
905                 910                 915
Gly Pro Pro Glu Ala Ala Ser Gln Gly Pro Pro Glu Asp Leu Leu
920                 925                 930
Ser Glu Asp Pro Leu Leu Leu Ala Ser Pro Ala Pro Pro Leu Ser
935                 940                 945
Val Gln Ser Thr Pro Arg Gly Gly Pro Pro Ala Ala Ala Asp Pro
950                 955                 960
Phe Gly Pro Leu Leu Pro Ser Ser Gly Asn Asn Ser Gln Pro Cys
965                 970                 975
Ser Asn Pro Asp Leu Phe Gly Glu Phe Leu Asn Ser Asp Ser Val
980                 985                 990
Thr Val Pro Pro Ser Phe Pro Ser Ala His Ser Ala Pro Pro Pro
995                1000                1005
Ser Cys Ser Ala Asp Phe Leu His Leu Gly Asp Leu Pro Gly Glu
1010                1015                1020
Pro Ser Lys Met Thr Ala Ser Ser Ser Asn Pro Asp Leu Leu Gly
1025                1030                1035
Gly Trp Ala Ala Trp Thr Glu Thr Ala Ala Ser Ala Val Ala Pro
1040                1045                1050
Thr Pro Ala Thr Glu Gly Pro Leu Phe Ser Pro Gly Gly Gln Pro
1055                1060                1065
Ala Pro Cys Gly Ser Gln Ala Ser Trp Thr Lys Ser Gln Asn Pro
1070                1075                1080
Asp Pro Phe Ala Asp Leu Gly Asp Leu Ser Ser Gly Leu Gln Asp
1085                1090                1095
Pro Gln Ala Gln Ser Thr Val Ser Pro Arg Gly Gln Arg Val Cys
1100                1105                1110
Thr Cys Ser Arg Arg Leu Pro Thr Gly Lys Leu Lys Pro Gly Val
1115                1120                1125
Ala Asp Thr Gly Thr Ala Ala Ser Pro His Arg His Cys Gly Ser
1130                1135                1140
```

```
Pro Ala Gly Phe Pro Pro Gly Gly Phe Ile Pro Lys Thr Ala Thr
                1145                1150                1155
Thr Pro Lys Gly Ser Ser Ser Trp Gln Thr Ser Arg Pro Pro Ala
                1160                1165                1170
Gln Gly Ala Ser Trp Pro Pro Gln Ala Lys Pro Pro Pro Lys Ala
                1175                1180                1185
Cys Thr Gln Pro Arg Pro Asn Tyr Ala Ser Asn Phe Ser Val Ile
                1190                1195                1200
Gly Ala Arg Glu Glu Arg Gly Val Arg Ala Pro Ser Phe Ala Gln
                1205                1210                1215
Lys Pro Lys Val Ser Glu Asn Asp Phe Glu Asp Leu Leu Ser Asn
                1220                1225                1230
Gln Gly Phe Ser Ser Arg Ser Asp Lys Lys Gly Pro Lys Thr Ile
                1235                1240                1245
Ala Glu Met Arg Lys Gln Asp Leu Ala Lys Asp Thr Asp Pro Leu
                1250                1255                1260
Lys Leu Lys Leu Leu Asp Trp Ile Glu Gly Lys Glu Arg Asn Ile
                1265                1270                1275
Arg Ala Leu Leu Ser Thr Leu His Thr Val Leu Trp Asp Gly Glu
                1280                1285                1290
Ser Arg Trp Thr Pro Val Gly Met Ala Asp Leu Val Ala Pro Glu
                1295                1300                1305
Gln Val Lys Lys His Tyr Arg Arg Ala Val Leu Ala Val His Pro
                1310                1315                1320
Asp Lys Ala Ala Gly Gln Pro Tyr Glu Gln His Ala Lys Met Ile
                1325                1330                1335
Phe Met Glu Leu Asn Asp Ala Trp Ser Glu Phe Glu Asn Gln Gly
                1340                1345                1350
Ser Arg Pro Leu Phe
                1355

<210> 34
<211> 490
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526208CD1

<400> 34
Met Ala Ser Thr Thr Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
  1               5                  10                  15
Leu Phe Glu Glu Leu Gly Lys Gly Ala Phe Ser Val Val Arg Arg
                20                  25                  30
Cys Met Lys Ile Pro Thr Gly Gln Glu Tyr Ala Ala Lys Ile Ile
                35                  40                  45
Asn Thr Lys Lys Leu Ser Ala Arg Val Arg Leu His Asp Ser Ile
                50                  55                  60
Ser Glu Glu Gly Phe His Tyr Leu Val Phe Asp Leu Val Thr Gly
                65                  70                  75
Gly Glu Leu Phe Glu Asp Ile Val Ala Arg Glu Tyr Tyr Ser Glu
                80                  85                  90
Ala Asp Ala Ser His Cys Ile Gln Gln Ile Leu Glu Ala Val Leu
                95                 100                 105
His Cys His Gln Met Gly Val Val His Arg Asp Leu Lys Pro Glu
                110                 115                 120
Asn Leu Leu Leu Ala Ser Lys Ser Lys Gly Ala Ala Val Lys Leu
                125                 130                 135
Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Asp Gln Gln Ala
                140                 145                 150
Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val
                155                 160                 165
Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Met Trp Ala Cys
```

```
                170                 175                 180
Gly Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp
                185                 190                 195
Asp Glu Asp Gln His Arg Leu Tyr Gln Gln Ile Lys Ala Gly Ala
                200                 205                 210
Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala
                215                 220                 225
Lys Asp Leu Ile Asn Lys Met Leu Thr Ile Asn Pro Ala Lys Arg
                230                 235                 240
Ile Thr Ala Ser Glu Ala Leu Lys His Pro Trp Ile Cys Gln Arg
                245                 250                 255
Ser Thr Val Ala Ser Met Met His Arg Gln Glu Thr Val Asp Cys
                260                 265                 270
Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu
                275                 280                 285
Thr Thr Met Leu Ala Thr Arg Asn Phe Ser Ala Ala Lys Ser Leu
                290                 295                 300
Leu Lys Lys Pro Asp Gly Val Lys Lys Arg Lys Ser Ser Ser Ser
                305                 310                 315
Val Gln Met Met Glu Ser Thr Glu Ser Ser Asn Thr Thr Ile Glu
                320                 325                 330
Asp Glu Asp Val Glu Ala Arg Lys Gln Glu Ile Ile Lys Val Thr
                335                 340                 345
Glu Gln Leu Ile Glu Ala Ile Asn Asn Gly Asp Phe Glu Ala Tyr
                350                 355                 360
Thr Lys Ile Cys Asp Pro Gly Leu Thr Ala Phe Glu Pro Glu Ala
                365                 370                 375
Leu Gly Asn Leu Val Glu Gly Met Asp Phe His Arg Phe Tyr Phe
                380                 385                 390
Glu Asn Ala Leu Ser Lys Ser Asn Lys Pro Ile His Thr Ile Ile
                395                 400                 405
Leu Asn Pro His Val His Leu Val Gly Asp Asp Ala Ala Cys Ile
                410                 415                 420
Ala Tyr Ile Arg Leu Thr Gln Tyr Met Asp Gly Ser Gly Met Pro
                425                 430                 435
Lys Thr Met Gln Ser Glu Glu Thr Arg Val Trp His Arg Arg Asp
                440                 445                 450
Gly Lys Trp Gln Asn Val His Phe His Arg Ser Gly Ser Pro Thr
                455                 460                 465
Val Pro Ile Lys Pro Pro Cys Ile Pro Asn Gly Lys Glu Asn Phe
                470                 475                 480
Ser Gly Gly Thr Ser Leu Trp Gln Asn Ile
                485                 490
```

<210> 35
<211> 344
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526212CD1

<400> 35

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Met Ala Ser Thr Thr Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
  1                 5                  10                  15
Leu Phe Glu Glu Leu Gly Lys Gly Ala Phe Ser Val Val Arg Arg
                20                  25                  30
Cys Met Lys Ile Pro Thr Gly Gln Glu Tyr Ala Ala Lys Ile Ile
                35                  40                  45
Asn Thr Lys Lys Leu Ser Ala Arg Val Arg Leu His Asp Ser Ile
                50                  55                  60
Ser Glu Glu Gly Phe His Tyr Leu Val Val Asp Leu Val Thr Gly
                65                  70                  75
```

```
Gly Glu Leu Phe Glu Asp Ile Val Ala Arg Glu Tyr Tyr Ser Glu
                80                  85                  90
Ala Asp Ala Ser His Cys Ile Gln Gln Ile Leu Glu Ala Val Leu
                95                 100                 105
His Cys His Gln Met Gly Val Val His Arg Asp Leu Lys Pro Glu
               110                 115                 120
Asn Leu Leu Leu Ala Ser Lys Ser Lys Gly Ala Ala Val Lys Leu
               125                 130                 135
Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Asp Gln Gln Ala
               140                 145                 150
Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val
               155                 160                 165
Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Met Trp Ala Cys
               170                 175                 180
Gly Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp
               185                 190                 195
Asp Glu Asp Gln His Arg Leu Tyr Gln Gln Ile Lys Ala Gly Ala
               200                 205                 210
Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala
               215                 220                 225
Lys Asp Leu Ile Asn Lys Met Leu Thr Ile Asn Pro Ala Lys Arg
               230                 235                 240
Ile Thr Ala Ser Glu Ala Leu Lys His Pro Trp Ile Cys Gln Arg
               245                 250                 255
Ser Thr Val Ala Ser Met Met His Arg Gln Glu Thr Val Asp Cys
               260                 265                 270
Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu
               275                 280                 285
Thr Thr Met Leu Ala Thr Arg Asn Phe Ser Ala Ala Lys Ser Leu
               290                 295                 300
Leu Lys Lys Pro Asp Gly Val Lys Glu Ser Thr Glu Ser Ser Asn
               305                 310                 315
Thr Thr Ile Glu Asp Glu Asp Val Lys Gly Thr Val Ala His Ala
               320                 325                 330
Cys Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Gln Ile Thr
               335                 340
```

<210> 36
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526213CD1

<400> 36

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Met Lys Lys Phe Ser Arg Met Pro Lys Ser Glu Gly Gly Ser Gly
  1                 5                  10                  15
Gly Gly Ala Ala Gly Gly Gly Ala Gly Gly Ala Gly Ala Gly Ala
                20                  25                  30
Gly Cys Gly Ser Gly Gly Ser Ser Val Gly Val Arg Val Phe Ala
                35                  40                  45
Val Gly Arg His Gln Val Thr Leu Glu Glu Ser Leu Ala Glu Val
                50                  55                  60
Ile Gln Met Leu Pro Val Gln Glu Pro Arg Leu Glu Tyr Arg Val
                65                  70                  75
Pro Leu Ile Ser Ser Gly Arg Arg Arg Leu Arg Arg Arg Cys
                80                  85
```

<210> 37
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526214CD1

<400> 37
Met Lys Lys Phe Ser Arg Met Pro Lys Ser Glu Gly Gly Ser Gly
1 5 10 15
Gly Gly Ala Ala Gly Gly Gly Ala Gly Gly Ala Gly Ala Gly Ala
20 25 30
Gly Cys Gly Ser Gly Gly Ser Ser Val Gly Val Arg Val Phe Ala
35 40 45
Val Gly Arg His Gln Val Thr Leu Glu Glu Ser Leu Ala Glu Gly
50 55 60
Thr Gly Ala Arg Gly Gly Ser Asp Arg Gln Val Asp Ser Pro Gln
65 70 75
Phe Ser Ser Cys Val Leu Thr Val Glu Ser Asp Val His
80 85

<210> 38
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526228CD1

<400> 38
Met Ser Thr Ala Ser Ala Ala Ser Ser Ser Ser Ser Ser Ser Ala
1 5 10 15
Gly Glu Met Ile Glu Ala Pro Ser Gln Val Leu Asn Phe Glu Glu
20 25 30
Ile Asp Tyr Lys Glu Ile Glu Val Glu Glu Val Val Gly Arg Gly
35 40 45
Ala Phe Gly Val Val Cys Lys Ala Lys Trp Arg Ala Lys Asp Val
50 55 60
Ala Ile Lys Gln Ile Glu Ser Glu Ser Glu Arg Lys Ala Phe Ile
65 70 75
Val Glu Leu Arg Gln Leu Ser Arg Val Asn His Pro Asn Ile Val
80 85 90
Lys Leu Tyr Gly Ala Cys Leu Asn Pro Val Cys Leu Val Met Glu
95 100 105
Tyr Ala Glu Gly Gly Ser Leu Tyr Asn Val Cys Ala Phe Leu Ser
110 115 120
Gln Cys Cys Met Val Leu Asn His Cys His Ile Ile Leu Leu Pro
125 130 135
Thr Gln

<210> 39
<211> 243
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526246CD1

<400> 39
Met Ala Asp Leu Glu Ala Val Leu Ala Asp Val Ser Tyr Leu Met
1 5 10 15
Ala Met Glu Lys Ser Lys Ala Thr Pro Ala Ala Arg Ala Ser Lys
20 25 30
Lys Ile Leu Leu Pro Glu Pro Ser Ile Arg Ser Val Met Gln Lys

```
                    35                  40                  45
Tyr Leu Glu Asp Arg Gly Glu Val Thr Phe Glu Lys Ile Phe Ser
                    50                  55                  60
Gln Lys Leu Gly Tyr Leu Leu Phe Arg Asp Phe Cys Leu Asn His
                    65                  70                  75
Leu Glu Glu Ala Arg Pro Leu Val Glu Phe Tyr Glu Glu Ile Lys
                    80                  85                  90
Lys Tyr Glu Lys Leu Glu Thr Glu Glu Glu Arg Val Ala Arg Ser
                    95                 100                 105
Arg Glu Ile Phe Asp Ser Tyr Ile Met Lys Glu Leu Leu Ala Cys
                   110                 115                 120
Ser His Pro Phe Ser Lys Ser Ala Thr Glu His Val Gln Gly His
                   125                 130                 135
Leu Gly Lys Lys Gln Val Pro Pro Asp Leu Phe Gln Pro Tyr Ile
                   140                 145                 150
Glu Glu Ile Cys Gln Asn Leu Arg Gly Asp Val Phe Gln Lys Phe
                   155                 160                 165
Ile Glu Ser Asp Lys Phe Thr Arg Phe Cys Gln Trp Lys Asn Val
                   170                 175                 180
Glu Leu Asn Ile His Val Ser Gly Leu Gly Trp Gly Met Glu Ser
                   185                 190                 195
His Ala Pro Cys Cys Ser Ser Pro Gly Ser Trp Ala Cys Gly Leu
                   200                 205                 210
Ala Gly Arg Gly Arg Ser Gly Asp Val Cys Pro Leu Ala Pro Arg
                   215                 220                 225
Ala Val Ala Met Gly Val Arg Ala Gly Ile Pro Ala Trp Gly Gly
                   230                 235                 240
Arg Ser Arg
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<210> 40
<211> 463
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526258CD1

<400> 40

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Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro
  1                 5                  10                  15
Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro
                   20                  25                  30
Ser Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser
                   35                  40                  45
Pro Ala Arg Leu Ser Gly Leu Leu Leu Ile Pro Pro Val Gln Pro
                   50                  55                  60
Cys Cys Leu Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly
                   65                  70                  75
Gly Pro Ser Ala Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu
                   80                  85                  90
Gln Ala Lys Ser Pro Gly Glu Leu Leu Arg Trp Leu Gly Gln Asn
                   95                 100                 105
Pro Ser Lys Val Arg Ala His His Tyr Ser Val Ala Leu Arg Arg
                  110                 115                 120
Leu Gly Gln Leu Leu Gly Ser Arg Pro Arg Pro Pro Pro Val Glu
                  125                 130                 135
Gln Val Thr Leu Gln Asp Leu Ser Gln Leu Ile Ile Arg Asn Cys
                  140                 145                 150
Pro Ser Phe Asp Ile His Thr Ile His Val Cys Leu His Leu Ala
                  155                 160                 165
Val Leu Leu Gly Phe Pro Ser Asp Gly Pro Leu Val Cys Ala Leu
                  170                 175                 180
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Glu Gln Glu Arg Arg Leu Arg Leu Pro Pro Lys Pro Pro Pro Pro
                185                 190                 195
Leu Gln Pro Leu Leu Arg Glu Ala Arg Pro Glu Glu Leu Thr Pro
            200                 205                 210
His Val Met Val Leu Leu Ala Gln His Leu Ala Arg His Arg Leu
            215                 220                 225
Arg Glu Pro Gln Leu Leu Glu Ala Ile Thr His Phe Leu Val Val
            230                 235                 240
Gln Glu Thr Gln Leu Ser Ser Lys Val Val Gln Lys Leu Val Leu
            245                 250                 255
Pro Phe Gly Arg Leu Asn Tyr Leu Pro Leu Glu Gln Gln Phe Met
            260                 265                 270
Pro Cys Leu Glu Arg Ile Leu Ala Arg Glu Ala Gly Val Ala Pro
            275                 280                 285
Leu Ala Thr Val Asn Ile Leu Met Ser Leu Cys Gln Leu Arg Cys
            290                 295                 300
Leu Pro Phe Arg Ala Leu His Phe Val Phe Ser Pro Gly Phe Ile
            305                 310                 315
Asn Tyr Ile Ser Gly Thr Pro His Ala Leu Ile Val Arg Arg Tyr
            320                 325                 330
Leu Ser Leu Leu Asp Thr Ala Val Glu Leu Glu Leu Pro Gly Tyr
            335                 340                 345
Arg Gly Pro Arg Leu Pro Arg Arg Gln Gln Val Pro Ile Phe Pro
            350                 355                 360
Gln Pro Leu Ile Thr Asp Arg Ala Arg Cys Lys Tyr Ser His Lys
            365                 370                 375
Asp Ile Val Ala Glu Gly Leu Arg Gln Leu Leu Gly Glu Glu Lys
            380                 385                 390
Tyr Arg Gln Asp Leu Thr Val Pro Pro Gly Tyr Cys Thr Gly Glu
            395                 400                 405
Gln Gly Ala Gly Gly Arg Pro Gly Glu Thr Glu Pro Trp Leu Arg
            410                 415                 420
Pro Pro Ala Leu Leu Pro Ser Arg Leu Pro Ala Val Arg Gln Gln
            425                 430                 435
Leu Trp Cys Cys Ala Ser Arg Glu Asp Pro Gly Pro Leu Pro Ala
            440                 445                 450
Ile Pro Thr Lys Val Leu Pro Thr Gly Pro Gly Cys Leu
            455                 460

<210> 41
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526311CD1

<400> 41
Met Arg Leu Ala Arg Leu Leu Arg Gly Ala Ala Leu Ala Gly Pro
  1               5                  10                  15
Gly Pro Gly Leu Arg Ala Ala Gly Phe Ser Arg Ser Phe Ser Ser
            20                  25                  30
Asp Ser Gly Ser Ser Pro Ala Ser Glu Arg Gly Val Pro Gly Gln
            35                  40                  45
Val Asp Phe Tyr Ala Arg Phe Ser Pro Ser Pro Leu Ser Met Lys
            50                  55                  60
Gln Phe Leu Asp Phe Gly Ser Val Asn Ala Cys Glu Lys Thr Ser
            65                  70                  75
Phe Met Phe Leu Arg Gln Glu Leu Pro Val Arg Leu Ala Asn Ile
            80                  85                  90
Met Lys Glu Ile Ser Leu Leu Pro Asp Asn Leu Leu Arg Thr Pro
            95                 100                 105
Ser Val Gln Leu Val Gln Ser Trp Tyr Ile Gln Ser Leu Gln Glu
```

110 115 120
Leu Leu Asp Phe Lys Asp Lys Ser Ala Glu Asp Ala Lys Ala Ile
125 130 135
Tyr Glu Arg Pro Arg Arg Thr Trp Leu Gln Val Ser Ser Leu Cys
140 145 150
Cys Met Ala Cys Lys Met Ile Phe Ile Val Trp Trp Lys Arg Gln
155 160 165
Arg Lys Ser Ile Ser Ser Lys Thr His Trp Lys His Lys Ser Lys
170 175 180
Leu Gln Cys Thr

<210> 42
<211> 386
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526315CD1

<400> 42
Met Ser Ser Leu Gly Ala Ser Phe Val Gln Ile Lys Phe Asp Asp
1 5 10 15
Leu Gln Phe Phe Glu Asn Cys Gly Gly Gly Ser Phe Gly Ser Val
20 25 30
Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys Glu Val Ala Val Lys
35 40 45
Lys Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile Leu Ser Val Leu
50 55 60
Ser His Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile Leu Glu Pro
65 70 75
Pro Asn Tyr Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly Ser Leu
80 85 90
Tyr Asp Tyr Ile Asn Ser Asn Arg Ser Glu Glu Met Asp Met Asp
95 100 105
His Ile Met Thr Trp Ala Thr Asp Val Ala Lys Gly Met His Tyr
110 115 120
Leu His Met Glu Ala Pro Val Lys Val Ile His Arg Asp Leu Lys
125 130 135
Ser Arg Asn Val Val Ile Ala Ala Asp Gly Val Leu Lys Ile Cys
140 145 150
Asp Phe Gly Ala Ser Arg Leu His Asn His Thr Thr His Met Ser
155 160 165
Leu Val Gly Thr Phe Pro Trp Met Ala Pro Glu Val Ile Gln Ser
170 175 180
Leu Pro Val Ser Glu Thr Cys Asp Thr Tyr Ser Tyr Gly Val Val
185 190 195
Leu Trp Glu Met Leu Thr Arg Glu Val Pro Phe Lys Gly Leu Glu
200 205 210
Gly Leu Gln Val Ala Trp Leu Val Val Glu Lys Asn Glu Arg Leu
215 220 225
Lys Lys Leu Glu Arg Asp Leu Ser Phe Lys Glu Gln Glu Leu Lys
230 235 240
Glu Arg Glu Arg Arg Leu Lys Met Trp Glu Gln Lys Leu Thr Glu
245 250 255
Gln Ser Asn Thr Pro Leu Leu Leu Pro Leu Val Ala Arg Met Ser
260 265 270
Glu Glu Ser Tyr Phe Glu Ser Lys Thr Glu Glu Ser Asn Ser Ala
275 280 285
Glu Met Ser Cys Gln Ile Thr Ala Thr Ser Asn Gly Glu Gly His
290 295 300
Gly Met Asn Pro Ser Leu Gln Ala Met Met Leu Met Gly Phe Gly
305 310 315

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Asp Ile Phe Ser Met Asn Lys Ala Gly Ala Val Met His Ser Gly
                320                 325                 330
Met Gln Ile Asn Met Gln Ala Lys Gln Asn Ser Ser Lys Thr Thr
                335                 340                 345
Ser Lys Arg Arg Gly Lys Lys Val Asn Met Ala Leu Gly Phe Ser
                350                 355                 360
Asp Phe Asp Leu Ser Glu Gly Asp Asp Asp Asp Asp Asp Asp Gly
                365                 370                 375
Glu Glu Glu Asp Asn Asp Met Asp Asn Ser Glu
                380                 385
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<210> 43
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526442CD1

<400> 43

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Met Asp Gln Tyr Cys Ile Leu Gly Arg Ile Gly Glu Gly Ala His
  1                 5                  10                  15
Gly Ile Val Phe Lys Ala Lys His Val Glu Thr Gly Glu Ile Val
                 20                  25                  30
Ala Leu Lys Lys Val Ala Leu Arg Arg Leu Glu Asp Gly Phe Pro
                 35                  40                  45
Asn Gln Ala Leu Arg Glu Ile Lys Ala Leu Gln Glu Met Glu Asp
                 50                  55                  60
Asn Gln Tyr Val Val Gln Leu Lys Ala Val Phe Pro His Gly Gly
                 65                  70                  75
Gly Phe Val Leu Ala Phe Glu Phe Met Leu Ser Asp Leu Ala Glu
                 80                  85                  90
Val Val Arg His Ala Gln Arg Pro Leu Ala Gln Ala Gln Val Lys
                 95                 100                 105
Ser Tyr Leu Gln Met Leu Leu Lys Gly Val Ala Phe Cys His Ala
                110                 115                 120
Asn Asn Ile Val His Arg Asp Leu Pro Pro Arg Pro Ile Gln Gly
                125                 130                 135
Pro Pro Thr Ser Met Thr Ser Thr Trp Thr Gly Leu Leu Arg Ser
                140                 145                 150
Arg Cys
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<210> 44
<211> 1916
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7517831CB1

<400> 44

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aactgccatt atcccatagt cccactggat ggcaagggca cgctgctcat ccgaaatggc 180
tctgagacaa cctggttatc gctctgcaca gctatgagcc ctctcacgac ggagatctgg 240
gctttgagaa gggggaacag ctccgcatcc tggagcagag cggcgagtgg tggaaggcgc 300
agtccctgac cacgggccag gaaggcttca tccccttcaa ttttgtggcc aaagcgaaca 360
gcctggagcc cgaaccctgg ttcttcaaga acctgagccg caaggacgcg gagcggcagc 420
tcctggcgcc cgggaacact cacggctcct tcctcatccg ggagagcgag agcaccgcgg 480
gatcgttttc actgtcggtc cgggacttcg accagaacca gggagaggtg gtgaaacatt 540
acaagatccg taatctggac aacggtggct tctacatctc ccctcgaatc acttttcccg 600
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gcctgcatga actggtccgc cattacacca atgcttcaga tgggctgtgc acacggttga 660
gccgcccctg ccagacccag aagccccaga agccgtggtg ggaggacgag tgggaggttc 720
ccagggagac gctgaagctg gtggagcggc tgggggctgg acagttcggg gaggtgtgga 780
tggggtacta caacgggcac acgaaggtgg cggtgaagag cctgaagcag ggcagcatgt 840
ccccggacgc cttcctggcc gaggccaacc tcatgaagca gctgcaacac cagcggctgg 900
ttcggctcta cgctgtggtc acccaggagc ccatctacat catcactgaa tacatggaga 960
atgggagtct agtggatttt ctcaagaccc cttcaggcat caagttgacc atcaacaaac 1020
tcctggacat ggcagcccaa ttgcagaagg catggcattc attgaagagc ggaattatat 1080
tcatcgtgac cttcgggctg ccaacattct ggtgtctgac accctgagct gcaagattgc 1140
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ccctgacaac tgtccagagg agctgtacca actcatgagg ctgtgctgga aggagcgccc 1440
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cacgtgtcct gtagttgcgt ggactctgca catgtcttgt acatgtgtag cctgtgcatg 1740
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agagagggga gaagcctggg attgacagaa gcttctgccc acctactttt ctttcctcag 1860
atcatccaga agttcctcaa gggccaggac tttatctaat acctctgtgt gctcct 1916

<210> 45
<211> 926
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7520272CB1

<400> 45
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ccgcttcgtc atggaggagg gcaggaaggc ccgcggcacg ggcgagttga cccagctgct 120
caactcgctc tgcacagcag tcaaagccat ctcttcggcg gtgcgcaagg cgggcatcgc 180
gcacctctat ggcattgctg gttctaccaa cgtgacaggt gatcaagtta agaagctgga 240
cgtcctctcc aacgacctgg ttatgaacat gttaaagtca tcctttgcca cgtgtgttct 300
cgtgtcagaa gaagataaac acgccatcat agtggaaccg gagaaaaggg gtaaatatgt 360
ggtctgtttt gatccccttg atggatcttc caacatcgat tgccttgtgt ccgttggaac 420
catttttggc atctatagaa agaaatcaac tgatgagcct tctgagaagg atgctctgca 480
accaggccgg aacctggtgg cagccggcta cgcactgtat ggcagtgcca ccatgctggt 540
ccttgccatg gactgtgggg tcaactgctt catgctggac ccggataatt cagctcctta 600
tggggcccgg tatgtgggct ccatggtggc tgatgttcat cgcactctgg tctacggagg 660
gatatttctg taccccgcta acaagaagag ccccaatgga aagctgagac tgctgtacga 720
atgcaacccc atggcctacg tcatggagaa ggctgggggа atggccacca ctgggaagga 780
ggccgtgtta gacgtcattc ccacagacat tcaccagagg gcgccggtga tcttggggtc 840
ccccgacgac gtgctcgagt tcctgaaggt gtatgagaag cactctgccc agtgagcacc 900
tgccctgcct gcatctggag aattga 926

<210> 46
<211> 1382
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7521279CB1

<400> 46
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ctctcattgt catggtgggc ctgcccgcca ggggcaagac ctacatctcc aagaagctga 180
ctcgatacct gaactggatt ggtgtgccca ctcgggagtt caatgttggc cagtatcgcc 240

gggacgtggt caagacctac aaatcttttg aatttttttct ccccgacaat gaagagggcc 300
tgaaaatcag gaagcagtgt gccctggcag ccctccgtga cgtccggcgg ttccttagtg 360
aggaggggag acatgtggcg gtttttgatg ccacaaacac cacccgagaa cggagagcga 420
ccatctttaa ttttggagaa cagaatggct acaagacctt ttttgtcgag tccatctgtg 480
tggatcctga ggtcatagct gccaacatcg tgcaagtgaa actgggcagc cctgactatg 540
tcaaccgcga cagtgatgag gctacggagg acttcatgag gcgcattgag tgctatgaga 600
actcctacga gtcgctagat gaggacctgg atagggacct gtcctatatc aagatcatgg 660
atgtgggcca gagctacgtg gtgaaccgtg tggctgacca catccagagc cgcatcgtat 720
attacctcat gaacatccac gtgacccccc gctccatcta cctctgccgg cacggggaga 780
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tattcctgaa cgtggctgct gtgaacacgc accgggacag gcctcagaac gtggacatct 1260
caagacctcc agaggaagcc cttgtcacgg tgcctgctca ccagtgacca tgttcatcca 1320
ctgtgaccac taggcaggca ctgctctctg cagaggggggt cattccaggc cctccagtgt 1380
ga 1382

<210> 47
<211> 1678
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523965CB1

<400> 47
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ctggccatca tgccgtagca tccagaccct gcgagtgctt agtggagatc tgggccagct 120
tcccactggc attcgagatt ttgtagagca cagtgcccgc ctgtgccaac cagagggcat 180
ccacatctgt gatggaactg aggctgagaa tactgccaca ctgaccctgc tggagcagca 240
gggcctcatc cgaaagctcc ccaagtacaa taactgctgg ctggcccgca cagaccccaa 300
ggatgtggca cgagtagaga gcaagacggt gattgtaact ccttctcagc gggacacggt 360
accactcccg cctggtgggg cccgtgggca gctgggcaac tggatgtccc cagctgattt 420
ccagcgagct gtggatgaga ggtttccagg ctgcatgcag ggccgcacca tgtatgtgct 480
tccattcagc atgggtcctg tgggctcccc gctgtcccgc atcggggtgc agctcactga 540
ctcagcctat gtggtggcaa gcatgcgtat tatgacccga ctggggacac ctgtgcttca 600
ggccctggga gatggtgact ttgtcaagtg tctgcactcc gtgggccagc ccctgacagg 660
acaagatcct gggcatcacc agccctgcag ggaagaagcg ctatgtggca gccgccttcc 720
ctagtgcctg tggcaagacc aacctggcta tgatgcggcc tgcactgcca ggctggaaag 780
tggagtgtgt gggggatgat attgcttgga tgaggtttga cagtgaaggt cgactccggg 840
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cctggctggg caaaccctgg aaacctggtg acaaggagcc ctgtgcacat cccaactctc 1080
gattttgtgc cccggctcgc cagtgcccca tcatggaccc agcctgggag gccccagagg 1140
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acgacccatt tgccatgcgg ccctttttg gctacaactt cgggcactac ctggaacact 1260
ggctgagcat ggaagggcgc aaggggccc agctgccccg tatcttccat gtcaactggt 1320
tccggcgtga cgaggcaggg cacttcctgt ggccaggctt tggggagaat gctcgggtgc 1380
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tggtgccaaa ggaaggagcc ttggatctca gcggcctcag agctatagac accactcagc 1500
tgttctccct ccccaaggac ttctgggaac aggaggttcg tgacattcgg agctacctga 1560
cagagcaggt caaccaggat ctgcccaaag aggtgttggc tgagcttgag gccctggaga 1620
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<210> 48
<211> 895
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524016CB1

<400> 48
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cagctcgagg caagacctat atctccacaa agctcacacg atatctcaac tggataggaa 180
caccaactaa agtgtttaat ttaggccagt atcgacgaga ggcagtgagc tacaagaact 240
atgaattctt tcttccagac aacatggaag ccctgcaaat caggaagcag tgcgccctgg 300
cagccctgaa ggatgttcac aactatctca gccatgagga aggtcatgtt gcggtttttg 360
atgccaccaa cactaccaga gaacgacggt cactgatcct gcagtttgca aaagaacatg 420
gttacaaggt gtttttcatt gagtccattt gtaatgaccc tggcataatt gcagaaaaca 480
tcaggcaagt gaaacttggc agccctgatt atatagactg tgaccgggaa aaggttctgg 540
aagactttct aaagagaatt gagtgctatg aggtcaacta ccaacccttg gatgaggaac 600
tggacagatc ttcgacgtgg gcacacgcta catggtgaac cgagtgcagg atcacatcca 660
gagccgcaca gtctactacc tcatgaatat ccatgtcaca cctcgctcca tctacctttg 720
ccgacatggc gagagtgaac tcaacatcag aggccgcatc ggaggtgact ctggcctctc 780
agttcgcggc aagcagtatg cctatgccct ggccaacttc attcagtccc agggcatcag 840
ctccctgaag gtgtggacca gtcacatgaa gaggaccatc cagacagctg aggcc 895

<210> 49
<211> 1294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524680CB1

<400> 49
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ttctttcttc cagacaacat ggaagccctg caaatcagga agcagtgcgc cctggcagcc 180
ctgaaggatg ttcacaacta tctcagccat gaggaaggtc atgttgcggt ttttgatgcc 240
accaacacta ccagagaacg acggtcactg atcctgcagt ttgcaaaaga acatggttac 300
aaggtgtttt tcattgagtc catttgtaat gaccctggca taattgcaga aaacatcagg 360
caagtgaaac ttggcagccc tgattatata gactgtgacc gggaaaaggt tctggaagac 420
tttctaaaga gaattgagtg ctatgaggtc aactaccaac ccttggatga ggaactggac 480
agccacctgt cctacatcaa gatcttcgac gtgggcacac gctacatggt gaaccgagtg 540
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tccatctacc tttgccgaca tggcgagagt gaactcaaca tcagaggccg catcggaggt 660
gactctggcc tctcagttcg cggcaagcag tatgcctatg ccctggccaa cttcattcag 720
tcccagggca tcagctccct gaaggtgtgg accagtcaca tgaagaggac catccagaca 780
gctgaggccc tgggtgtccc ctatgagcag tggaaggccc tgaatgagat tgatgcgggt 840
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